

Graduate Booklet

BEE

Bachelor in Electrical
Engineering

CLASS OF 2021

www.seecs.nust.edu.pk

Department of

Electrical Engineering

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the name of Allah the Most Beneficent and the Most Merciful

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NUST - SEECS

School of Electrical Engineering and Computer Science (SEECS) symbolizes a paradigm shift in the culture of higher education in Pakistan. It stands tall as an institute with a progressive vision and dynamic focus on the key imperatives of sound engineering education marked by quality of instruction and research on its newly built campus in the idyllic setting of federal metropolis.

Today it is one of the enviable seats of higher engineering education in Pakistan with an ambition to have a prestigious global stature of its own. It already enjoys international recognition as a centre of excellence. The school is fully committed to the promotion of IT and engineering education, marked by creativity, innovation and life-long learning.

Department of Electrical Engineering

Message from Senior Head

Dr. Hassaan Khaliq



I hope and pray that you all are safe and healthy in this difficult time. The much-awaited time has come for yet another batch of engineering graduates of EE program to enter into the real world. I would like to congratulate all the graduating students at this moment of accomplishment, which has come after the successful culmination of four years of hard work and studies. In these extraordinary circumstances, the student's commitment and dedication to complete their final year projects is truly commendable. I have personally witnessed presentations and demonstrations by the students in distance learning mode and I was amazed to see the diversity of the projects and their completeness despite limited means to complete the projects due to the lockdown.

In order to become useful members of the engineering fraternity, you have to continuously learn and get accustomed to the new technologies and trends in engineering. On the other hand, this challenging time gives us a strong message that everything is connected with everything and how deeply each one of us is connected with everybody else in this human World. Therefore, you have strong responsibilities on your shoulders to give something back to society by not only keeping yourself healthy but also playing your part in becoming better citizens of the World.

I wish you best of luck in your future endeavours and hope that the future holds promise for you. So go forth, work hard and make worthy contributions to your profession and society.

Department of Electrical Engineering

The Electrical Engineering (EE) department at NUST SEECs currently offers an undergraduate degree in Electrical Engineering with various specializations and strong post-graduate program leading to PhD in Electrical Engineering. The EE department offers a broad range of EE courses, both elementary and advanced, spanning the whole gamut of EE disciplines including areas such as electronics, electrical machines, power engineering, control systems, communication systems and networks.

Academics

The EE department aims to achieve academic and research leadership in its subject area through its well-designed curriculum (that emphasizes conceptual understanding and fosters creativity) coupled with its strong focus on research, innovation, and industry-liaison. NUST SEECs also strongly emphasizes on imbining the graduates with sound professional ethics.

Department of Electrical Engineering Vision

To acquire prominence at national and international level as a unique source of quality education and distinguished research through its qualified faculty, state-of-the-art facilities and enabling environment, which stimulate all to excel in their respective endeavors to emerge as winners.

Department of Electrical Engineering Mission

To develop EE graduates having a concrete knowledge base of EE discipline through a strong focus on teaching excellence and develop their analytical and problem solving skills through a strong focus on fostering research and innovation.

Program Educational Objectives (PEOs)

The EE program at SEECs is based on four Program Education Objectives (PEOs) that are elaborated below and published in the program catalogue website and student's handbook. The PEOs are listed below:

PEO-1: To produce employable graduates with core mathematical, scientific and engineering concepts in the domain of electrical Engineering

PEO-2: To produce creative engineers equipped with sound analytical and problem solving skills to undertake real world challenges.

PEO-3: To produce responsible and ethical professionals with leadership qualities and effective soft skills.

PEO-4: To produce enterprising professionals with a motivation for innovation and life-long learning.

Research Aims/Objectives

The Department of Electrical Engineering at SEECS is committed to carry out cutting edge and productive research in the vast domain of electrical engineering. The research aims at:

- Utilizing the latest technological advancements for the betterment and advancement of Society.
- Catering to the demands and needs of local industry and strategic R&D organizations of the country.
- Contributing to cutting edge research in diversified specialties such as advanced digital and analogue electronics, microwaves, communication, computer networking, signal processing and multimedia, computer vision and advanced controls for robotics.
- Development of high quality and well-groomed research professionals.

Lab Facilities

EE department is facilitating students with well equipped teaching and research labs. Detail f labs is as following:

Teaching labs

1. Basic Electronics Lab (PG Block)
2. Digital & Embedded Systems Lab (UG Block)

Research Labs

1. WISNET Lab (PG Block)
2. CEFAR Lab (PG Block)
3. CONNEKT Lab (GRC)
4. AMSEG Lab (GRC)
5. Vispro lab (GRC)
6. System Analysis and Verification (SAVe) (GRC)
7. GSM Lab (PG Block)
8. ESDA center (SMRIMS)
9. IP Tech Lab (Cognet) (PG Block)
10. Smart lab(GRC)
11. SEIFLAR Lab (UG Block)

Faculty

At the Department of Electrical Engineering, we presently have a total of 48 faculty members. Of these 39 are PhDs qualified from leading universities of the world like GeorgiaTech, Michigan State university(USA), UNSW (Australia), Manchester & Southampton Universities (UK), to name a few. Together this mic of highly proficient professionals provides a balanced team covering most of the areas of specialization in the discipline of electrical engineering.

Senior Head Dr. Hassaan Khaliq Qureshi Phd - City University London, UK	
Digital Systems and Signal Processing	
Dr. M. Shahzad Younis Ph.D-University Technology Petronas, Malaysia	Dr. Osman Hasan Phd-Corcodia University, Canada
Dr. Usman Zabit Phd-Institute of National Polytechnic de Toulouse, France	Dr. Khawar Khurshid Phd. Michiganstate University USA
Dr. Ahmad Salman Phd-University of Manchester, UK	Dr. Rehan Ahmed Phd-University of British Columbia, Canada
Dr. Arbab Latif Phd-King Fahd University	Dr. Wajahat Hussain Phd-University of Zaragoza, Spain
Dr. Wajid Mumtaz Phd-University Teknologi, Malaysia	Mr. Arshad Nazir MS-NUST Islamabad, Pakistan
Mr. Nasir Mahmood MS-BUAA, China	Mr. Muhammad Imran Abeel MS-NUST Islamabad, Pakistan
Dr. Muhammad Imran PhD-Sungkyunkwan University, South Korea	Dr. Muhammad Jamil Nawaz PhD - University of TUKL, Germany
Communication Systems and Networks	
Dr. Syed Ali Hassan Phd-Georgia institute of Tech, USA	Dr. Fahd Ahmed Khan PhD- King Abdullah university, Saudi Arabia
Dr. S. M Hassan Zaidi Phd-University of South Florida, USA	Dr. Rizwan Ahmad PhD-Victoria University, Australia
Dr. Salman Abdul Ghafoor PhD - University of Southampton, UK	Dr. Naumana Ayub PhD-City University Of London, London
Dr. Huma Ghafoor Phd-Univeristy of Ulsan South, Korea	Dr.Syed Taha Ali PhD - University of New South Wales, Australia
Mr. Yasir Iqbal MS - University of Gävle, Sweden	Dr. Sajjad Hussain Phd-Dublin University, Ireland
Dr. Umair Sajid Hashmi Phd-University of Oklahoma, USA	Dr. Mohaira Ahmad PhD-Jihangsu University, China
Mr. Ahsan Azhar MS -University of Gavle Sweden, Sweden	
Electronics, Power and Control	
Dr. Ammar Hasan Phd-Imperial College London, UK	Dr. Farid Gul PhD - Beihang Univesity China, China
Dr. Usman Khan Phd-University of Roma Italy	Dr. Muhammad Latif Anjum PhD- Politecnico di Torino, Italy

Senior Head Dr. Hassaan Khaliq Qureshi Phd - City University London, UK	
Dr. Rana Iftikhar Ahmad PhD - University of Versailles, France	Engr. Shakeel Alvi MS GWU, USA
Mr. Mansoor Shaukat MSc Electronics - UK	Dr. Kamran Zeb PhD- Pusan National University, South Korea
Dr. Mansoor Asif PhD- Hanyang University, South Korea	Ms. Neelma Naz MS - EME, NUST Pakistan.
Dr. Hasan Arshad Nasir Phd-University of Melbourne, Australia	Mr. Habeel Ahmad MS-Michigan State University, USA
Dr. Mansoor Ali Khan Phd-University Sydney, Australia	Dr. Zubair Rehman PhD- Massey University
Dr. Hina Gohar Ali PhD - Univrtstat Autonoma de Barcelona, Spain	Dr. Ahmed Rasheed Phd-University San Yat Sen, China
Dr. Rameez Hayat Phd-University of Munich, Germany	Dr. Jawad Arif Phd-Imperial College London, UK
Dr. Nauman Khurshid PhD- LUMS, Pakistan	Dr. Usman Ali Phd-Georgia institute of Tech, USA

Bachelor of Electrical Engineering (BEE)

Program Description

The Bachelors degree program in Electrical Engineering is spread over four years of study/ the program follows Outcome based Education System of Washington Accord. In essence, the first three semesters of the undergraduate curriculum focus primarily on strengthening the foundations which are essential for engineering major. These include mathematics, basic sciences, computers, fundamental concepts in analog and digital electronics and their practical skills. The curriculum aims at developing a high degree of proficiency in solving mathematical, scientific and engineering problems. Practical skills such as analysis and design are a vital component of engineering education and are needed to translate ideas into physical reality.

Program Details

The Bachelor of Electrical Engineering program at NUST_SEECS encompasses a broad spectrum of knowledge areas including Electronics (Digital and Analog), Signal Processing and Communication Systems, Controls Systems and Robotics, Electromagnetic & Electro optics, Electrical Energy Generation and Distribution.

Important Courses

Formal course work in the remaining semesters include in-depth study of the various sub -fields of the respective engineering curricula. Wherever required, design has been supplemented with practical work. The undergraduate program has a strong component of design. The curriculum also includes some product development courses that enable the students to estimate and manage resources for the implementation of a product.

The seventh and eight semesters consists of professional advance level courses focusing on various focus areas of EE. The final year design project is also included in the degree plan that may be the collaboration of industry to prepare the students to start their career as a professional engineer and give them confidence to apply their knowledge according to the needs of the industry.

Career Outcomes

Students are provided an opportunity to undergo Internship with reputed public and private sector enterprises during the summer holidays. This exercise exposes them to the production and management policies being implemented in those organizations. It also allows the students to gain practical experience in the own field of engineering discipline and also provides avenues for employment to students in the organizations where they carry out this training.

BEE-Curriculum				
S. No.	Course Code	Subjects	CHs	Semester
1	MATH101	Calculus and Analytical Geometry	(3-0-3)	1st
2	ME104	Engineering drawing	(0-1-1)	
3	HU100	English	(2-0-2)	
4	CS113	Introduction to Programming	(1-1-2)	
5	MATH121	Linear Algebra and ODE's	(3-0-3)	
6	HU107	Pakistan Studies	(2-0-2)	
7	PHY101	Applied Physics	(3-1-4)	
Total CHs			(14-3-17)	
1.	EE111	Linear Circuit Analysis	(3-1-4)	2nd
2.	ME100	Engineering Mechanics	(3-0-3)	
3.	HU101	Islamic Studies	(2-0-2)	
4.	ME105	Workshop Practice	(0-1-1)	
5.	MATH106	Multivariable & Vector calculus	(3-0-3)	
6.	CS212	Object Oriented Programming(OOP)	(3-1-4)	
Total CHs			(14-3-17)	
1	EE221	Digital Logic Design	(3-1-4)	3rd
2	CS250	Data Structures and Algorithms	(3-1-4)	
3	EE211	Electrical Network Analysis	(3-1-4)	
4	ME105	Workshop Practice	(0-1-1)	
5	EE215	Electronic Devices and Circuits	(3-1-4)	
6	HU109	Communication Skills	(2-0-2)	
7	EE215	Electronic Devices and Circuits	(3-1-4)	
8	HU109	Communication Skills	(2-0-2)	
9	EE222	Microprocessor Systems	(3-1-4)	
10	MATH361	Probability & Statistics	(3-0-3)	
Total CHs			((14-3-17)	
1.	MATH351	Numerical Methods	(3-0-3)	4th
2.	EE260	Electrical Machines	(3-1-4)	
3.	E-313	Electronic Circuit Design	(3-1-4)	
4.	EE351	Communication Systems	(3-1-4)	
5.	EE241	Electromagnetic Field Theory	(3-0-3)	
Total CHs			((15-3-18)	
1	EE379	Control Systems	(3-1-4)	5th
2	EE330	Digital Signal Processing	(3-1-4)	
3	ECO130	Engineering Economics	(2-0-2)	
4	EE 383	Instrumentation and Measurements	(3-1-4)	
5	EE XXX	Elective-1	(3-X-X)	

Total CHs			((14-3+X-17+X)		
1.	CS352	Theory of Automata and Formal Lan- guages	3	6th	
2.	HU222	Professional Ethics	2		
3.	MATH333	Numerical Analysis	3		
4.	XX-xxx	CS Elective – III	3		
5.	XX-xxx	University Elective – II	3		
6.	XX-xxx	University Elective –III	3		
Total CHs			17		
1.	CS354	Compiler Construction	3	1	7th
2.	CS499	Senior Project	0	3	
3.	MGT271	Entrepreneurship	2	0	
4.	XX-xxx	CS Elective – IV	3	X	
5.	XX-xxx	University Elective -IV	2+X	X	
Total CHs			10+X	4+X	
Overall CHs			111+X	20+X	
Grand Total (Credit Hours)			133+X		

BESE

Student Resumes

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AROوبا REHMAN

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LinkedIn profile <https://www.linkedin.com/in/arooba-rehman-a79785203/>

Career Objectives

I am a Student of BS Electrical Engineering (SEECs) currently in 8th Semester with CGPA 3.27. My Goal is to secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills.

EDUCATION

2017 BEE NUST H-12
2016 Intermediate Army Burnhall College, Abbottabad.
2014 Matric Army Public School, Bahawalpur.

WORK EXPERIENCE

Sep Present IPT Lab
Quantifying Error in LoRa Signal Transmission.
June August ROMI Lab Seecs ~ 2019
Summer Internship: Interfacing ROS with EV3 Lego Robot.

PROFESSIONAL & TECHNICAL SKILLS

C/C++ programming Embedded C on Arm Cortex, Arduino controllers.
Python3 Machine Learning: Neural Networks and Deep Learning
HTML5, CSS PHP and SQL, JavaScript and jQuery
AUTOCAD Familiar with MATLAB and Proteus

ACADEMIC PROJECTS

Hand Gesture Recognition System: Using Python libraries and OpenCV and concept of Neural Networks.
IOT Enabled Coffee Machine: ARM CORTEX M4 used as microcontroller, ESP8266 module for Wi-Fi connection. Also used ICs, Motors, and sensor.
Home Automation: Arduino used as microcontroller with HC-05 Bluetooth Module to connect with Mobile App.

Achievements

Securing First Position in BurnHall College.

Community Involvement

Project Insaniyat held at Seecs Nust.
Volunteer at Froods Organization.

Extra Curricular Activities

Reading, Content Writing, Swimming, Baking.

Ashar Nasir

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LinkedIn profile <https://www.linkedin.com/in/asharnasir/>

Career Objectives

To strive for excellence in industry and enhance the automation opportunities for potential manufacturers. Contribute to the scientific community and to keep learning everyday

EDUCATION

2015 Matric Dar e Arqam School, Sharaqpur
2017 FSc GCU, Lahore
2021 BEEE SEECs, NUST

WORK EXPERIENCE

2018 Internship at WWF
2018 Project Insaniyat
2020 E-Commerce Consultant
2020 Research Paper in Hybrid ASR

PROFESSIONAL & TECHNICAL SKILLS

Programming Python, C++, Java, Assembly
General MS Office
Engineering Verilog, PSpice, Autocad

ACADEMIC PROJECTS

Microprocessor-based Motor Controller
Digital Logic based traffic controller
Deep Learning based Hybrid Speech Recognition
Desktop App development

Achievements

Matric District Position Holder

Community Involvement

Project Insaniyat
Volunteer
Covid Response Team

Extra Curricular Activities

Blogging
Cricket

Abdur Rehman Amjad Virk

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LinkedIn profile <https://www.linkedin.com/in/abdur-rehman-amjad-virk-a889761a1>

Career Objectives

Ambitious and learning attitude combined with dedication and result oriented mindset. Persistently trying to increase my skillset and experience. Likes to work in a team and would love to lead one with an outlook for creative solutions



EDUCATION

2021	BEE	National University of Sciences and Technology, Islamabad
2017	Inter	Government College University, Lahore
Year	Degree	Institute



WORK EXPERIENCE

Sep 2020 Present Freelancer
Data Analyst, Data Visualization, Data Entry



PROFESSIONAL & TECHNICAL SKILLS

Coding	Matlab, Python, R
Simulation	PSPICE, MultiSIM, LTSPICE
Architecture	Intel X-86, ARM-Cortex



ACADEMIC PROJECTS

Investigation of effects of Antidepressants on Depression involving Quantitative EEG Data
In this project, we have worked to devise a channel to properly classify a depressive patient as responder or non-responder to a specific anti-depressive drug.

Achievements

Digital Market Specialization
Data Analyst Specialization

Community Involvement

Sahara Project

Extra Curricular Activities

Book Reading
Badminton
Table Tennis
E-Gaming
Articles

Syed Shayan Sohail

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Career Objectives

I am a dedicated, hardworking and proactive Electrical Engineer with a strong background in Embedded System Design, Hardware Programming, Logic Building and Control systems and Operating systems. I am currently looking for an opportunity to utilize my knowledge and skills in a working environment and become a valuable asset to the organization that I work for.



EDUCATION

2021	BEE	School of Electrical Engineering & Computer Science, NUST
2017	HSSC	Fauji Foundation College Rawalpindi
2015	SSC	Fauji Foundation College Rawalpindi



WORK EXPERIENCE

July-2019 Aug-2019 Sigma Lab, SEECS NUST
Worked on development of a Multi-channel custom DAQ board.



PROFESSIONAL & TECHNICAL SKILLS

EE	Digital and Embedded Systems Design, Control Systems
EE	Verilog, VHDL, FreeRTOS, mbedOS, Signal Processing
CS	Programming (Python, C, C++), MATLAB, AI, ML
Soft Skills	Msft Excel, Business & Technical Writing, Critical Thinking



ACADEMIC PROJECTS

Smart Traffic Controller using VHDL
Gesture Controlled Robot using stm32f103c8t6 running RTOS
8x8x8 LED Cube using Universal Shift Registers
Development of Modular EEG Framework for teaching, training & Data Collection (FYP)

Achievements

Prime Minister Laptop Scheme
awardee

3 x High GPA scholarship awardee

Community Involvement

Food Ration Drive

Project Insaniyat: Collection of
Funds and Cloths for poor and
orphans

Extra Curricular Activities

Interest in Physics & Astronomy

Tech Enthusiast

Volley Ball & Snooker

Ahmad Sadiq Saeed Butt

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LinkedIn profile <https://www.linkedin.com/in/ahmad-saeed-09b1b41a6/>

Career Objectives

A passionate worker who gives his all to whatever he devotes himself to and has demonstrated track record of completing projects on time within the budget limits.

→ EDUCATION

2021	Bachelors	National University of Sciences & Technology
2017	Inter	Punjab Group of Colleges
2015	Matric	Imperial International School and College

→ WORK EXPERIENCE

2018 Present Freelance Writer
Actively participating in freelance writing work

2019 Present Volunteer
Visited many orphanages and involved orphans in various educational activities

→ PROFESSIONAL & TECHNICAL SKILLS

Machine Learning	MATLAB
C++	MS Office
Leadership	Teamwork
Time Management	Organizational

→ ACADEMIC PROJECTS

1. EEG based automatic diagnosis of depression
2. Music Visualizer: Designed and fabricated on micro controller TM4C123g.
3. Made a ping pong game using LEDs as all the objects involved utilizing the concepts of Digital Logic Designing.
4. Proposed an efficient hybrid engine model.



Achievements

Participation in Kangaroo Global Competition
Participation in ISMO Global Competition
1st Position in Intermediate Academic from the region

Community Involvement

Project Insaniyat : Visited an orphanage and provided rations to a village nearby

Extra Curricular Activities

Football
Cricket
Ping Pong
Trekking
Travelling
E-gaming

HASSAN MAHMOOD KHAN

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LinkedIn profile <https://www.linkedin.com/in/hassan-mahmood-khan-6a781119b/>

Career Objectives

I consider myself as a passionate and vibrant individual who enjoys participation. My aim is to deliver on my targets with the aid of innovation, concentration, and composure. As far as my interests go, I wish to be able to work on newer technologies alongside conventional ones, in order to obtain a holistic understanding of global trends in the industry.

→ EDUCATION

2021	Bachelor's in	National University of Sciences and Technology
2017	A-levels	Beaconhouse Educational Complex
2015	O-levels	Beaconhouse Educational Complex

→ WORK EXPERIENCE

Sep 2018 Oct 2019 Team Leader Talent Management, AIESEC in NUST

- Recruit the best set of individuals.
- Manage, train, and retain top-performing members.
- Lead a diverse team, delegate tasks and monitor results.

July 2019 Oct 2019 Director Inventory and Merchandise, Orientation of NUST

- Design attractive and cost-effective merchandise.
- Engage a diverse spectrum of individuals via efficient marketing strategies.
- Maintain inventory for logistical and financial awareness.

→ PROFESSIONAL & TECHNICAL SKILLS

Data Science	Programming skills i.e., C++, Python
Data Science	Machine Learning, Artificial Intelligence, Computer Vision
Electrical & Power	MATLAB, Simulink, Autocad etc.
Inter-personal Skills	Critical thinking, Conflict resolution, Leadership, Flexibility

→ ACADEMIC PROJECTS

Regional Finalists - Microsoft Imagine Cup 2020
We competed to develop an original technology project. Our project aimed at reducing the hazards associated with the use of earphones by individuals i.e., pedestrians, workers etc. by creating an application which alerts the user of the imminent danger via a warning (audio & pop up), using Machine Learning.



Achievements

- Winners - Intra-NUST Football 2019
- Regional Finalists - Microsoft Imagine Cup 2020

Community Involvement

- Volunteer work for Project Insaniyat, Chadar NUST
- WWF Intern/Volunteer

Extra Curricular Activities

- Sports
- Athletics
- Current Affairs
- Travel enthusiast

Mominah Asif

Email Address Email ID: mominahasif@gmail.com

LinkedIn profile LinkedIn ID: https://www.linkedin.com/in/mominah-asif-4977661a4/

Career Objectives

An enthusiastic electrical engineer seeking opportunities to uncover her full potential while creating an impact

EDUCATION

- 2021 Bachelors National University of Sciences & Technology
- 2017 Intermediate Punjab Group of Colleges
- 2015 Matric PakTurk International Schools and Colleges

WORK EXPERIENCE

Aug/2020 Sep/2020 Pak Elektron Limited

Worked in the Procurement and Construction department (EPC) to carry out the designing of electrical components in the grid station

June/2019 July/2019 Honda Atlas Cars Pakistan Limited

Worked at the Assembling Unit, Manga Mandi, to carry out the loading procedures and standards where I managed stock handling procedures and warehousing techniques of storing and loading different parts of automobile

PROFESSIONAL & TECHNICAL SKILLS

- Teamwork Data Analysis
- Data Analysis Problem Solving
- Microsoft Office Machine Learning
- Autocad Technical and Soft Skills

ACADEMIC PROJECTS

1. EEG based automatic diagnosis of depression
2. Jail Management: ObjectOriented Programming in C++ like file, image and data handling
3. Music Visualizer: Designed and fabricated on microcontroller TM4C123gh
4. Password Based Attendance System

Achievements

1. Bronze medalist in Turkish Poem reciting
2. Organized a trekking trip to the Mushkpuri Peak budgeted at 120,000 PKR

Community Involvement

1. Project Insaniyat: Visited orphanages and villages for food drives
2. Interned at WWF Pakistan where I did 30 hours of community services program
3. Interned at The citizens foundation where I taught underprivileged kids from remote areas

Extra Curricular Activities

1. Trekking
2. Cycling
3. Badminton
4. Table Tennis
5. Photography
6. Reading
7. Writing

HUZAIFAH TARIQ

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Career Objectives

Seeking employment in a professional environment where I can diversify and improve upon my skills as an Electrical Engineer while making a significant contribution to the success of the company.

EDUCATION

- 2021 B.Sc (EE) National University of Sciences and Technology (NUST)
- 2017 F.Sc Government College University (GCU)
- 2015 Matric Cadet College Hasan Abdal (CCH)

WORK EXPERIENCE

08/2020 Present Freelancing as a Content Writer on Upwork

I am working mainly as a blog writer. Moreover, I also did some novel rewriting along with writing articles on technical and academic topics.

From To Organization

Brief summary of key responsibilities - work / research experience

PROFESSIONAL & TECHNICAL SKILLS

- EE Machine Learning.
- Softwares MATLAB, LabVIEW
- Graphic Designing Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro
- Soft Skills Active Listening, Logical Thinking, Team Work

ACADEMIC PROJECTS

- FYP - Investigation of the effects of antidepressants on depression involving quantitative EEG data.
- Machine Learning - Improving hand drawn images using pix2pix.
- Machine Learning - Image Classifier using pytorch libraries.

MAAZ KHALEEQ

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Career Objectives

Motivated fresh graduate who demonstrates excellent problem solving and leadership skills eager for an opportunity to learn and grow. Able to critically think and implement concepts and ideas to solve business challenges and help a company expand.

EDUCATION

2015 O-Levels Saint Mary's Academy (6A*s & 3As)
2017 A-Levels Benchmark School System (3A*s & 1A)
2021 Bachelors NUST SEECS Electrical Engineering

WORK EXPERIENCE

24/06/19 11/08/19 Jazz
Devised a Health and Safety Manual that ensured safe working environment for employees at Jazz
Completed a project that highlighted how the company was wasting millions to power factor penalties and how to save them by using capacitor banks
From To

PROFESSIONAL & TECHNICAL SKILLS

Programming C, C++, R, Python, MATLAB, Octave
ML Frameworks Pytorch, Tensorflow, Keras
Courses Machine Learning, Image Processing, Computer Vision
Soft Skills MS Word, Powerpoint, Excel

ACADEMIC PROJECTS

FYP: Development of Deep One Class Classifier
Project: Sound Classification using Convolutional Neural Networks
Project: Simulating motion blur for gaming videos
Specialization: Deep Learning by Andrew Ng

Achievements

Winner Unilever Talent Hunt 2020: for proposing innovative idea of plastic free future that supported sustainable agriculture
Semi Finalist Unilever Future Leaders League 2020: Represented Pakistan on an international level to cater to the challenge of infusing purpose and driving penetration for Dove Hand and Body products

Community Involvement

Volunteer for Project Insaaniyat

Extra Curricular Activities

Vice President Resources at Orientation of NUST 2019
Director Accounts at Nust Entrepreneurs Club
Deputy Director Finance at NUST Olympiad 2019
Deputy Director Accounts at Orientation of NUST 2018

Maham Shahid

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Career Objectives

I am seeking employment in a reputable company and in challenging environment so that I can polish my skills. I want to excel in the field of embedded systems with perseverance, hard work and dedication.

EDUCATION

2015 Matriculation IMCG-F7/4
2017 Fsc-Pre eng IMCG-F7/2
2021 BEE NUST-SEECS

WORK EXPERIENCE

N/A

Achievements

Community Involvement

-Insaaniyat Project(2017)

Extra Curricular Activities

-Basket Ball
-Cricket

PROFESSIONAL & TECHNICAL SKILLS

Embedded Verilog/VHDL/Xilinx/Free-RTOS
Image Processing MATLAB
Programming C/C++
Communication Technical writing and communication skills.

ACADEMIC PROJECTS

I have done my final year project(FYP) in Digital image processing and embedded systems design domain.

MUHAMMAD KHALID

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Career Objectives

Enthusiastic student currently studying Electrical Engineering. An individual with strong work ethic and ability to work independently. Strong organisational and team collaboration skills with experience in improving processes.



EDUCATION

2021 B.Sc (EE) NUST
2017 F.Sc IMCG G-10/2
2015 Matric IMCG G-10/2



WORK EXPERIENCE

10/3/2020 20/4/2020 Community Intern at Yneer Lounge
Building an online community that aims at helping people in buying and selling by the aid of Travellers. We developed skills that aid in team work, better communication and interpersonal skills.

Feb,2020 May,2020 Content Writer at MOON MONI
Learned to write and edit high-quality content. Managed competing deadlines with efficiency. Used Microsoft Word to write and submit error-free content.



PROFESSIONAL & TECHNICAL SKILLS

Software Microsoft Office
Software MATLAB, PSPICE, Lab View, ADS, Logixpro
Writing Content Writing and Editing (Beginner level)
Communication Team work, problem solving, stress management



ACADEMIC PROJECTS

Gesture controlled Wireless Robotic hand movement using Arm Cortex
Luggage protection device
Mobile phone detection

Achievements

Awarded with PM Laptop
Participant in CloudSeekho initiative and got swags
Attended Ufone Master Classes and Telenor Design Thinking workshop and got certificates

Community Involvement

Volunteer at Insaniyat community service.
It was a community service project in which we decided to help the underprivileged part of society and made some sort of financial/asset-based contribution.

Extra Curricular Activities

Social Work (Plantation)
Content Writing
Online Educational Courses
Games (Badminton, Cricket)
Working in NUST Societies (ACM)

Muhammad Husnain Ali

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Career Objectives

To obtain an opportunity to use my technical and management skills, working as part of a team, and meeting deadlines for the betterment of society.



EDUCATION

2015 Matric WCCT, Tarbela
2017 Intermediate Punjab College of Science, Faisalabad
2021 BE Electrical National University of Science and Technology, Islamabad



WORK EXPERIENCE

21/06/2018 21/07/2018 NPGCL GENCO III
Technical Internship where I worked on turbines. And learnt their operations.
June 2019 August 20 ASP LAB SEECS
Technical Internship where I worked on different machine learning algorithms.



PROFESSIONAL & TECHNICAL SKILLS

Electrical Engineerin Power System Analysis, Design and Protections, PSCAD,
Electrical Engineerin ARM Cortex, Aurduino, MATLAB, Pspice, Multisim, Proteus,
Software Engineerin C, C++, Pythn, Java, Java Script, HTML, CSS, PHP, Machir
Management Communication Skill, Interpersonal Skills, Leadership Skills,



ACADEMIC PROJECTS

- Bank Management System - Heart Rate Sensor - Travel Agency Management System
- Taxi fare meter (time module) - Barrier Avoiding Robotic Car - Crops Price Analysis
Final Year Project:
Demand Response based control of Building Cooling Units

Achievements

- Finalist Cross Road Emerging Leader Program 2019

Community Involvement

- OC member DevFest by GDG
- Organizer Major League Hackathon NUST

Extra Curricular Activities

ACM NUST
(Treasurer I Sep 2020 to Present)
NUST FITNESS CLUB
(Mentor I Sep 2020 to present)
NUST FITNESS CLUB
(Treasurer I Sep 2019 to June 20)
NUST BIOREACH SOCIETY
(Team Audit IOctober 2018 to December 2019)
IEEE SEECS
(Team Finance IJanuary 2019 to June 2019)
NUST COMMUNITY SERVICES CLUBTeam
(Logistics IOctober 2018 to December 2018)

MUHAMMAD ALI

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Career Objectives

An effective and confident student, who is also a self-starter with the dedication and motivation required to succeed in a busy technical department. Easy going by nature and able to get along with both work colleagues and senior managers when providing technical support to daily operations of technical department. Presently looking to process a career by joining an exciting and ambitious organization that rewards ability and hard work.

EDUCATION

2021 BE Electrical NUST SEECS, H-12 Islamabad
2017 F.sc Punjab College of Science Blue Area Islamabad
2015 Matric IMSB I-10/2 Islamabad

WORK EXPERIENCE

Aug 2020 Jan 2021 Microtechx
This was a Multicloud internship program in which we worked on different cloud platforms e.g. Azure, GCP and AWS.
Jun 2019 Aug 2019 ROMI Lab SEECS NUST
We were a group of interns at ROMI Lab. We were given the task of operating Lego EV3 on ROS.

PROFESSIONAL & TECHNICAL SKILLS

Management Interpersonal skills, Team work, Project Management
Programming C++, Python, Assembly Language, MATLAB
Simulation PSpice, ADS, Simulink, Wireshark, TinkerCAD
Cloud MS Azure, GCP

ACADEMIC PROJECTS

Object Tracking using LPWANS, Reliability in UDP, Operating Lego (EV3) with ROS, Q-Learning on ARM Cortex M-4, Arduino Radar, Looking at camera from criminal perspective.

Achievements

- 1) Quiz Competition Winner at PCS Blue Area Islamabad (2017).
- 2) Organizer MTS'19 from Youth Insight.

Community Involvement

- 1) Volunteer at Project MOH organized by HHRD and Youth Insight (2019).
- 2) Volunteer at Project Insaniyat organized by Chadar Islamabad (2017).

Extra Curricular Activities

- 1) Team Member at AWS Community Pakistan.
- 2) Graphic designer at Youth Insight.
- 3) Former graphic designer at SGA SEECS
- 4) Team Member at StartUp Grind 2018.
- 5) Former graphic designer at NPAS NUST.

Muhammad Bilal

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Career Objectives

To obtain a challenging position in the prestigious world where accomplishments are rewarded with greater responsibilities and career development and also to serve humanity through some kind of innovation. Polish my skills and use them for betterment of society.

EDUCATION

2015 Matric Nishat High School
2017 Inter Kips College
2021 Bachelor National University of Science and Technology

WORK EXPERIENCE

Sep 2020 Sep 2020 Pakistan Health Ministry
Managed 10 teams
Supervised and kept track of team progress
Completed all deliverables in timely fashion
Oct 2019 Apr 2020 IEEE SEECS
Maintain amicable working environment
Manage team of 5 personnel
Interviewed and hired talented individuals

PROFESSIONAL & TECHNICAL SKILLS

Technical Skill Programming (MATLAB, Python, C, C++)
Technical Skill Circuit Analysis and Solving
Technical Skill Embedded C, Verilog, Proteus
Soft Skills Communication skills, Leadership skills, Presenting skills

ACADEMIC PROJECTS

The Clean Plate (Final Year Project)
Self Obstacle avoiding Robot using FreeRTOS
Automatic License Plate Recognition
RF ID card lock system using STM32
Digital Alarm Clock

Achievements

Community Involvement

Intern At Akhuwat Foundation
Project "Insaniyat"

Extra Curricular Activities

Volunteered at Open House 2017-18
Participated at Youth Forum 2018

Muhammad Hamza

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Career Objectives

My undergrad studies is mainly focused on Mobile Communication System, Digital Signal Processing, Microwave and Antenna Engineering, Programming, Deep Learning and Data Science. My Projects mainly include Python Programming, Deep Learning, Application Development and Speech Recognition so I am looking forward to pursue my post-graduation in one of the above domains.

→ EDUCATION

2021	BEE	NUST - SEecs
2017	FSC	Adamjee Government Science College
2015	Matric	Haq Foundation School

→ WORK EXPERIENCE

2020 Present DNN Based Hybrid Speech Recognition System

I am currently working on my final year project which is the deep neural network based hybrid speech recognition which is able to differentiate Urdu and English language using coded-mixing technique as well as able to do transcription.

→ PROFESSIONAL & TECHNICAL SKILLS

Deep Learning	Deep Learning Frameworks (TF , Pytorch , Fast.ai)
Speech Recognition	Kaldi, DeepSpeech, Google Speech to Text API
Antennas	Antenna Designing and Analysis
Programming Lang	C, C++ , Matlab, Python and its frameworks

→ ACADEMIC PROJECTS

1. Bank Management and Library Management System using C++ and Qt toolkit
2. Bluetooth motor controller and load divider using ARM CORTEX M4
3. Car Price Prediction Using Machine Learning
4. Deep Learning Based Hybrid Speech Recognition System



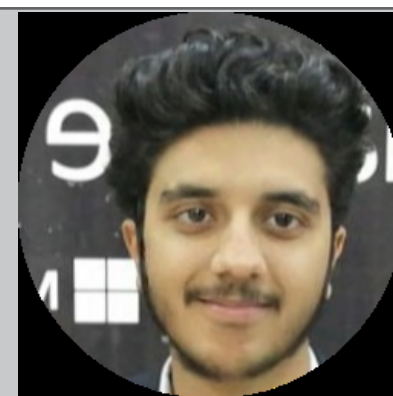
Achievements

Community Involvement

Director Finance Nust Bioreach Society
Executive Finance Nust Fine Arts Club

Extra Curricular Activities

Write Extra Curricular Activities Here



Muhammad Mustafa Umar Gondel

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Career Objectives

I am a passionate engineering student seeking learning opportunities related to Electrical Engineering. I am enthusiastic about robotics and embedded design and excited to get hands on experience related to my degree.

→ EDUCATION

2021	Bachelors	SEecs, NUST-Electrical Engineering
2017	F.Sc	APSACs
2015	Matric	APSACs

→ WORK EXPERIENCE

Jan 21 Present NSTP

Responsible for collaborating with team to plan and implement data transfer using IoT. Successfully implemented IoT messaging technique for project. Experience professional working environment.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C/C++/Python/Matlab
Microcontrllers	Arduino/Raspberry Pi/ESP/APM
IoT	MQTT
Soft	Punctuality/Adaptability/Self-motivation

→ ACADEMIC PROJECTS

FINAL YEAR PROJECT-IOT BASED CROP MONITORING & IRRIGATION MANAGEMENT SYSTEM
OBSTACLE AVOIDANCE IN DRONES
SOUND CLASSIFICATION USING CNNs
HOME SECURITY & AUTOMATION SYSTEM

Sadia Asif

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Career Objectives

Seeking a challenging position with a professional and work driven environment where I can utilize and apply my knowledge along with interpersonal and technical skills while fulfilling organizational goals

EDUCATION

2021 BE Electrical NUST Islamabad

2017 Intermediate Leads College JPJ Gujrat

2015 Matriculation Govt. Islamia Girls High School , JPJ Gujrat

WORK EXPERIENCE

April 2020 Mar 2020 SIGMA Lab in collaboration with TUKL R & D Center

Worked on Funded Project by DAAD related to EEG for localization of deep learning-based algorithms and development of ESP 32 based hardware for live EEG data acquisition

Mentoring Interns and assisting them in their project

June 2019 Sep 2020 ASP SEECS Lab in collaboration with Sci Fi

Worked on Crop data Analysis Project using Machine Learning algorithms and on a collaborative project of SciFlair UK Ltd for handling the class imbalance problem of a dataset containing chest X-Rays of Covid patients for the prognosis of covid' 19. Data annotation for fruits detection using MATLAB

PROFESSIONAL & TECHNICAL SKILLS

Software PLC, ADS, Multisim, Xilinx, Labview, MATLAB, Visual Studio

Hardware ARM (TM4C123, STM32) , Arduino, ESP 32, FPGA, DAC

Languages Python, C/C++, Verilog, Assembly, HTML, CSS, PHP

Soft Skills Team Work, Leadership, Creativity, Research and Analysis

ACADEMIC PROJECTS

EEG abnormality Detection using Deep learning
Smart Attendance System using Face Recognition
FreeRtos Based Windows Simulator Using Stm 32
FPGA based Smart Traffic Controller
Crops Data Analysis using Machine Learning Algorithms
Collision Detection Robotic Vehicle Using ARM Cotex TM4C123

Achievements

Distinction in Huawei ICT competition 2019
Cross Roads Emerging Leader by Harvard Business School
1st Position at National Level in YLMC

Community Involvement

Director HR at Chadar.

Chair ASWAN at Association of Computing Machinery ACM

Director HR at TABA youth Force

Volunteer at Youth Insight/ USA Helping Hand

Project Member of UN Millennium

Extra Curricular Activities

Director Liaison at NUST character Building Society

Provincial Ambassador At YPEG
Volunteer at Youth Insign

Active member at Million Smiles

HCIA Certification in R & S

Sardar Hassnain Ali

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Career Objectives

Seeking a good position to begin my career with in a high level professional environment. To fully utilize my technical and interpersonal skills I have learnt in my bachelor's degree to get the desired customer satisfaction and career growth.

EDUCATION

2014 Matriculation Happy Day School System Peshawar

2016 Fsc-Pre eng Edwardes College Peshawar.

2021 BEE NUST-SEECS

WORK EXPERIENCE

Freelancing related to electrical engineering domains.

Achievements

-89.9% in matric
-85% in Fsc

Community Involvement

-Insaniyat Project(2017)

Extra Curricular Activities

-Cricket

PROFESSIONAL & TECHNICAL SKILLS

Embedded Verilog/VHDL/Xilinx/Free-RTOS

Image Processing MATLAB

Programming C/C++/Python/Java

Communication Communication Skills.

ACADEMIC PROJECTS

-FYP in Digital Image Processing and Embedded Systems Design

Syed Momin Ali Hashmi

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LinkedIn profile <https://www.linkedin.com/in/momin-hashmi-9a7341168>

Career Objectives

A hard-working and passionate senior seeking a competitive Electrical engineer position. My interests and strengths include C/C++, FreeRTOS, embedded hardware/software development, and PCB designing. I want to exercise my existing skills for the success of your organization and ready to learn new things.



EDUCATION

2021	BEE	SEECs, NUST
2017	FSC	Fauji Foundation College for boys, New Lalazar, RWP
2015	Matric	Fauji Foundation College for boys, New Lalazar, RWP



WORK EXPERIENCE

15/6/2019 9/8/2020 Research Assistant at SIGMA Lab, SEECs, NUST
Hardware development of highly precise ADC board to get data from 8 channels simultaneously using esp32

1/6/2020 Current Freelancer

Working as a circuit designer, PCB designer and embedded C coder on Freelancers.com, Fiverr and Upwork.



PROFESSIONAL & TECHNICAL SKILLS

Embedded Design	5/5
Free RTOS	5/5
C/C++	5/5
PCB Design	5/5



ACADEMIC PROJECTS

FYP- Developed 8 channel EEG PCB. Programmed the ADC through SPI interface, collected data and applied Machine learning Algorithms to categorize brain signals as normal or abnormal
Freelance- Designed hardware, PCB and code for a box for \$360
7th semester- Obtained data from multiple sensors using FreeRTOS on STM32



Tauqir Hassan

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Career Objectives

My undergrad studies is mainly focused on Embedded Systems , Digital System Design , Internet of Things (IoT), Digital Signal Processing, Deep Learning. The projects that I worked on are based on the amalgam of all these modules. Hence, post-graduation, I hope to build my career around these aforementioned subjects.



EDUCATION

2017	BS EE	NUST-SEECs
2015	HSSC	APS ACS, HAMZA CAMP, RWP
2013	SSC	APS ACS, HAMZA CAMP, RWP



WORK EXPERIENCE

2020 Present TUKL-Deep Learning Lab

I am working on my final year project "HLS based Implementation of Epilepsy Detection using ANN Architecture on FPGA" at TUKL. Its objective is a real-time implementation of an epilepsy detector on a integrated circuit known as FPGA.



PROFESSIONAL & TECHNICAL SKILLS

Embedded System	Embedded C
Embedded System	Assembling Language
Deep Learning	Deep Learning Frameworks
Digital Systems	Verilog



ACADEMIC PROJECTS

- 1) HLS based Implementation of Epilepsy Detection using ANN Architecture on FPGA
- 2) Reinforcement learning on ARM Cortex M-4 microcontroller
- 3) Bluetooth Powered Multimeter based on STM32F4 & RTOS
- 4) Unreal Engine based game design using OOP principles

Achievements

National finalist ICT competition 2019 by Huawei

Prize winner at NaSCon 2019 by FAST

Prize winner at WSW 2016 by IST

Community Involvement

Community service at Fauji Foundation hospital for a month

Volunteer work at project Chaddar

Volunteer work at project Insaniat

Extra Curricular Activities

Director Logistics at NUST Entrepreneurs Club

Director Liaison at NUST Entrepreneurs Club

Team Lead at IEEE SEECs

Football

Swimming

Achievements

Community Involvement

- Executive Admin Events

- Student Member at AWS Community Pakistan

Extra Curricular Activities

- Organization of seminars through the platform of NCBS

- Article Writing

- Ecommerce

Muhammad Usama Mirza

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LinkedIn profile LinkedIn ID: https://www.linkedin.com/in/usama-mirza-051b90184/

Career Objectives
To secure a responsible career opportunity to expand my knowledge and skills

→ EDUCATION

2021 BEE SEECS, NUST
2017 A-Levels Roots International School, Wah Cantt
2015 O-Levels Lahore Grammar School, Wah Cantt

→ WORK EXPERIENCE

1/6/2019 1/9/2019 TUKL R&D, NUST
Worked as a research intern to implement a Machine Learning Model on FPGAs to recognize handwritten digits.
1/1/2021 Present Hatch-8 Incubation Programonal
Worked as Project Management Intern to create and design project roadmap

→ PROFESSIONAL & TECHNICAL SKILLS

Machine Learning Machine Learning Frameworks
Programming C/C++, Python, MATLAB
Software AutoCAD, Visual Studio, Keil
Soft Skills Microsoft Office

→ ACADEMIC PROJECTS

- Crop yield prediction using Computer Vision and Machine Learning
- Generating Synthetic Data for Deep Learning
- Audio Classification using Convolutional Neural Networks
- Maze Solving Automobile
- Survival based Video Game

Achievements

- Top in the World Distinction in O-Level Mathematics
- Best in three subjects in northern region in A-Levels
- Two silver and one bronze medal in International Kangaroo Mathematics Contest

Community Involvement

- Took part in Project Insaniyat to provide aid to the poor
- Part of Organization Committee for Roots Olympiad

Extra Curricular Activities

- Video Game Development
- Chess



ZEERAK NAVEED

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Career Objectives
I am a passionate and career-oriented individual seeking learning opportunities and exposure. I am enthusiastic about engineering and technology management, and want to add value to organization, create an impact and get hands on experience in the corporate sector.

→ EDUCATION

2021 Bachelors SEECS-NUST Electrical Engineering
2016 A Levels The City School (2As & 1B)
2014 O Levels The City School (5A*s & 4As)

→ WORK EXPERIENCE

Feb 2021 Present National Science and Technology Park
Co-founded a startup which aims to provide smart agriculture to small-scale commercial farmers.
Attended multiple training workshops on product development.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming Python, C, C++, assembly language
Machine learning PyTorch, TensorFlow, RaspberryPi
Management Financial management, design thinking
Management Team leadership, project management

→ ACADEMIC PROJECTS

FYP: IoT-based crop monitoring & irrigation management system
Sound classification using convolutional neural networks
Generating synthetic data for deep learning
Research project on organization behavior
Research project on international market entry strategies

Achievements

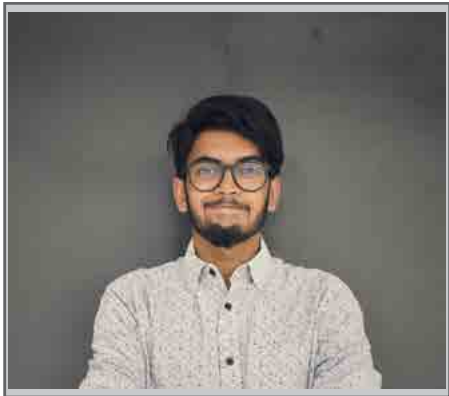
- Winner FICS-NUST 2020
- Regional Finalist Microsoft Imagine Cup 2020
- Best deputy director NUST Orientation 2019

Community Involvement

- Participant Project Insaniyat

Extra Curricular Activities

- Director finance NUST Media Club 2019-20
- Deputy director finance NUST Orientation 2019
- Team member NUST Olympiad 2019
- Executive member NUST Entrepreneur's Club 2018-19
- Organizing Committee Member HONET-ICT Conference 2018



AHMED USMAN

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Career Objectives

To use my experience working with a diverse group of people to find innovative solutions to problems that focus on making human lives easier and better.

EDUCATION

2021	B.Eng.	National University of Sciences & Technology, Islamabad
2016	A Levels	Mesaieed International School, Qatar
2015	IGCSEs	Mesaieed International School, Qatar

WORK EXPERIENCE

Jun 2018	July 2018	Rehman Motors
Understanding automobiles by studying their features, capabilities and comparing them with competing models. Maintaining rapport with previous customers by suggesting trade-ins best suited for their needs.		
July 2019	Sep 2019	Orientation of NUST
Led a team of 5 individuals to prepare Orientation Guide groups for the incoming freshman (~1100 students) and providing them with assistance before and during their orientation.		

PROFESSIONAL & TECHNICAL SKILLS

Team Work	Worked with people of different cultural background
Leadership	President of SEECS Farewell, Team Lead for Science Bee
Microprocessor	Experience working with arduino and ARM Cortex M4
Softwares	MS Office, MATLAB & Simulink, AutoCAD

ACADEMIC PROJECTS

- Micro-Hydro Power Generation Unit
- Automated Colour Sorter
- Automated Cricket Score Board
- Automated Colour Sorter

Achievements

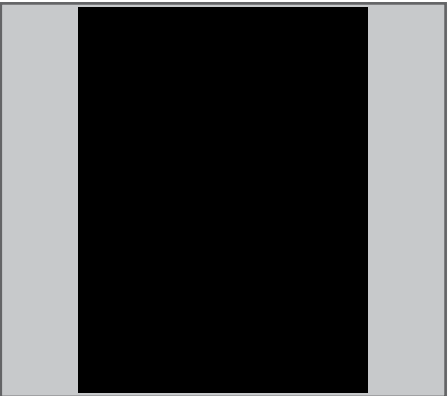
Winner of QUESS Doubles Table Tennis Tournament.

Community Involvement

- NCSC Blood Donation Drive
- QAFCO Flower & Vegetable Show
- Fund Collection for Project Insaniyat which is a community service project for the most vulnerable people of our society.
- Shoe box of Hope for the victims of Typhoon Haiyan in the Philippines

Extra Curricular Activities

- President of SEECS Farewell 2020
- NUST International Model United Nations where I was responsible of getting in touch with the foreign delegations
- NUST Science Society - Generated the highest revenue in the events history from registrations and ticket sales.



ALEESHA AYYAZ ABBASI

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Career Objectives

I am eager to improve my skills by applying the knowledge that I have acquired, practically.

EDUCATION

2017	BEE	NUST H-12
2016	F.Sc	Punjab College F-8/4 Islamabad.
2014	Matric	I.C.G F-6/2 Islamabad

WORK EXPERIENCE

June	August	ROMI Lab SEECS
Interfacing ROS with Lego EV3 kits, along with other interns and project members.		
2020	Present	IPT Lab Seecs
Quantifying the frequency offset in transmitting signals in LORA signal transmission		

PROFESSIONAL & TECHNICAL SKILLS

HTML,CSS,PHP, JAVASCRIPT TENSOR FLOW.
AutoCAD MATLAB ENSP, Wireshark

ACADEMIC PROJECTS

HURDLE DETECTOR USING LEGO,TWITTER SENTIMENT ANALYSIS,DELIBERATE LITERATE,VOICE CONTROLLED ROBOTIC WHEELCHAIR (ARM CORTEX M4),SHORTEST PATH FINDING USING DIJKSTRA'S ALGO,MATRIX SOLVER,LIBRARY MANAGEMENT SYSTEM.

Achievements

2014-2016 full merit scholarship for above 95% marks.

Community Involvement

Part of Insaniyat Project held at Seecs Nust.

Extra Curricular Activities

Content Writing, Learning new language, Reading, Painting, Calligraphy

AMMAR AHMED

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Career Objectives

A zealous, hardworking and flexible individual. A fast learner, who uses creative approach and tries to develop innovative technological solutions to the existing problems of humankind. Looking for challenges and growth.



EDUCATION

2021 Bachelors in National University of Sciences and Technology

2017 HSSC Army Public School and College, Jhelum

2015 SSC Farabi Foundation School, Dina



WORK EXPERIENCE

From To Organization

Brief summary of key responsibilities - work / research experience

From To Organization

Brief summary of key responsibilities - work / research experience



PROFESSIONAL & TECHNICAL SKILLS

Programming C/C++

Circuit Simulation Pspice, Multisim

Design AutoCAD, Graphic Designing

Other MATLAB, Verilog HDL, Web Development, PCB Designing,



ACADEMIC PROJECTS

A cost effective fault localization device for power distribution networks based on Electromagnetic time reversal, Home Automation System using ARM Cortex M4, Tic Tac Toe using Logic Gates only, 3D Map of NUST using AutoCAD, Bus Management System using concepts of Object Oriented programming, Unified Covid Front (COVID-19 awareness website), Oxygen (a blogging website)

Achievements

Community Involvement

Project Insaniat: A Community Service Project

Extra Curricular Activities

Engineering: Undergraduate & Masters Asia Virtual Experience Program
Member AWS Community Pakistan
Ufone Master Class Series

Anwar Sarwar

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LinkedIn profile www.linkedin.com/in/anwar-sarwar

Career Objectives

A highly motivated, organized and hard working individual looking for a responsible career opportunity to leverage my training and skills, while expanding my practical experience and contributing significantly towards achieving company goals.



EDUCATION

2021 Bachelors National University of Sciences and Technology, Islamabad

2017 FSc Government College University(GCU), Lahore

2015 Matric Divisional Public School, Burewala



WORK EXPERIENCE

2020 2021 Teacher Assistant to Professor Umair Sajid Hashmi

Worked as a Teaching Assistant for the courses of Signal & Systems(EE-232) and Communication Systems(EE-353) at SEECS NUST. Assisted in execution and maintenance of course curriculums. Conducted assignments and quizzes.



PROFESSIONAL & TECHNICAL SKILLS

MATLAB Signal Analysis, Simulink, LTI systems, Fourier Analysis

Machine Learning Model Training and testing in Python/Colab and MATLAB

Circuit Simulations Circuit simulations on ADS, Multisim/PSpice and LabVIEW

Management Excellent teamwork, good administrator and inspiring leader



ACADEMIC PROJECTS

- 5G-IOT based Industrial Automation using smart user- clustering and NOMA
- Synthetic Text Dataset Generation
- Smart Traffic Signal System using TM4C123 Microprocessor

Achievements

- Completed an online certification on Machine Learning by Stanford University offered through Coursera

- Completed a course on Web Development from SEECS NUST

Community Involvement

I was a part of different drives and campaigns some of them are:
- Al Mehmood helping hands: a part of the NGO doing work for the poor and poverty stricken people.
- Project Insaaniyat: it was a multiday fund raising campaign for the poor and destitute people of Islamabad
- SOS Village visits: these were a series of visits to SOS villages to raise funds for such institutions.

Extra Curricular Activities

- Badminton
- Photography
- Book reading
- Web Development



Muhammad Ahmed Khan

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Career Objectives

I see myself as either a plant engineer working at the plant of an industry or as manager of supply chain at any corporate office.

→ EDUCATION

2021	BEE	NUST - SEECS
2016	A levels	Nixor College
2014	O levels	St. Paul's English High School, Karachi.

→ WORK EXPERIENCE

July 2019	Aug 2019	Feroze1888 Mills Limited
Was a plant engineering intern. Was responsible to complete a project of development of ground earth pit resistance monitoring system. Was also responsible to learn the working of the department of plant engineering.		
Sep 2018	Jan 2019	Supply Line Express
Was responsible to manage the supply chain of a private start up at NUST.		

→ PROFESSIONAL & TECHNICAL SKILLS

Computers	MS Office
Soft Skills	Communication Skills
Software	C++
Software	Matlab

→ ACADEMIC PROJECTS

- 1. Real Time Internet Traffic Monitoring and Control using DPI and ML.
- 2. Automated Industrial Load Control using micro-controller ARM Cortex.
- 3. Bank management system using C++ and OOP.

Achievements

- 1. Best Intern Award at Feroze1888 Mills.
- 2. Won Mathathon in a certain category at NUST.

Community Involvement

- 1. The Citizens Foundation Internship.
- 2. Volunteer at Dar-ul-Sukoon.

Extra Curricular Activities

- 1. Debating.
- 2. Horse Riding.



SHAN

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Career Objectives

Efficient use and transmission of electric power.
High voltage direct current (HVDC) implementation throughout the country.
Automation in daily life tasks and promoting control systems.

→ EDUCATION

2014	SSC	The Educators
2016	HSSC	Fauji Foundation College for Boys
2021	BEE	SEECS, NUST

→ WORK EXPERIENCE

2019	-	Active Tours Pakistan
- To manage accomodations and transport for tourists - Creating posters, logos and videos for the company		
From	To	Organization
Brief summary of key responsibilities - work / research experience		

→ PROFESSIONAL & TECHNICAL SKILLS

Transmission	Identification and correction of faults, improving efficiency
Generation	Identification and correction of faults, improving efficiency
Controls	Steady state analysis for conrol systems
Controls	Industrial Process Control Management

→ ACADEMIC PROJECTS

- Obstacle avoiding card - ARM Cortex-M2
- Parity generator and checher - Digital Logic Design
- Trie (Tree data structure) serves as autocomplete - C++
- Home automation prototype - Arduino
- Automated efficient tomato growth

Achievements

Community Involvement

'Chadar' initiative
PRCS

Extra Curricular Activities

Video Editing
Graphic Designing
Blockchain (cryptocurrency)



Ali Zain Ul Abideen

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LinkedIn profile

Career Objectives
Make myself aquanted with different Engineering tools and work for the betterment of the society and mankind.

→ EDUCATION

2014 SSC APS Gujranwala Cantt
2016 HSSC APS Ord Rd Rwp Cantt
2021 BEE SEECS NUST

→ WORK EXPERIENCE

2017 2017 Project Insaniyat
Human Resource Management

2018 2018 NUST Dramatics Club
Human Resource Management

→ PROFESSIONAL & TECHNICAL SKILLS

Electrical Pspice/Proteus/Visual Studio
Communication Interpersonal skills
Problem Solving Problem solving / Algorithms
Communication Presentation Skills

→ ACADEMIC PROJECTS

John Conway’s Game Of Life in C language
Detecting Vehicle Movement Using Sensors
RFID Based Employee Attendance System

Achievements

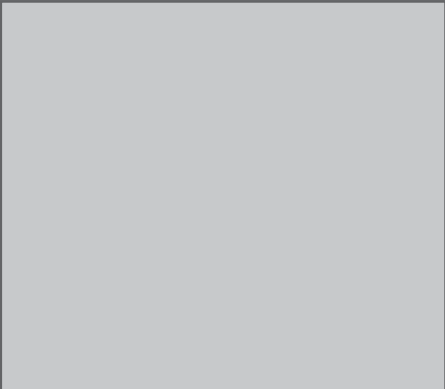
Top 3 in various urdu debting competitions
90% marks in SSC
Scholarship in HSSC-I

Community Involvement

HR team for Project Insaniyat

Extra Curricular Activities

E-Gaming
Acting
Singing
Debate
table Tennis
Movies And TV-Shows
Tech And Gadgets



RAO WAQAS

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Career Objectives
I am currently enrolled in Bachelors of Electrical Engineering at NUST, I am very motivated to learn skills and methods and everything that matters to be a better engineer and eventually a true professional.

→ EDUCATION

2021 Bachelors in Bachelors in Electrical Engineering
2016 HSSC Punjab Group of Colleges Bhakkar Campus
2014 SSC District Public School Bhakkar

→ WORK EXPERIENCE

06/2018 08/2018 Akhuwat Foundation
Community Service

8/2020 10/2020 FESCO
Protection and Instrumentation intern

→ PROFESSIONAL & TECHNICAL SKILLS

Circuit Simulation Pspice, Multisim
Signal Processing MATLAB
Soft Skills Adaptability, Communication Skills
Other skills LabView, AutoCAD

→ ACADEMIC PROJECTS

A cost effective fault localization device for power distribution networks based on Electromagnetic time reversal, 3D Map of NUST using AutoCAD, Bus Management System using concepts of Object Oriented programming

Achievements

Community Involvement

Project Insaniat

Extra Curricular Activities

House Captain of SEECS Cricket Team
Social Media executive- Nust
Literary Circle

Syed Shaharyaar Hussain

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Career Objectives

I want to work on intersection of Emerging Communication technology and Artificial Intelligence.

EDUCATION

2017	F.Sc	Forman Christian College
2021	BEE	National University of Sciences and Technology
Year	Degree	Institute

WORK EXPERIENCE

Jul, 2018 Aug, 2018 Akhuwat Microfinance

Composed success stories on Akhuwat Micro-finance about the impact of on SMEs and society due to its interest-free loans. Moreover, I traveled with Akhuwat team for clothes disbursement in villages.

Jul, 2020 Sep, 2020 Adaptive Signal Processing Lab

I did internship at Adaptive Signal Processing Lab, SEECS-NUST, where I performed Comparative Analysis of Oranges-Dataset classification using deep learning, transfer learning and image compression techniques.

PROFESSIONAL & TECHNICAL SKILLS

EE & CS	MATLAB/SIMULINK
EE & CS	Python & Anaconda
EE & CS	Data Analysis
EE	Embedded System Design

ACADEMIC PROJECTS

- 1) Harvey Hurricane Analysis Using MATLAB
- 2) Simulating Switching Diversity and channel gains modeling in MATLAB
- 3) Transmitter-Receiver audio channel modeling with AWGN in SIMULINK
- 4) Discrete Tone Generator using Tiva Series Cortex M4 development board
- 5) PGMA Image steganographer in C language

Achievements

P. Carter Speers Gold Medalist from Forman Christian College, Lahore

Community Involvement

Volunteered for Project Insaniyat

Extra Curricular Activities

Graphic Designer at ACM Chapter NUST

Graphic Designer at Youth Entrepreneurship Society

Volunteered for OC in Google DevFest'18

Talha Mehboob

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Career Objectives

Ingenious and determined Electrical Engineer with two years of experience as a Research Assistant. Managed tasks related to development of Machine Learning Models and Designing & Development of Hardware. Immediate goal is to secure a position at a company where I can continue to grow and improve myself both personally and professionally.

EDUCATION

2021	Bachelors	National University of Sciences & Technology, Islamabad
2017	FSc	Fauji Foundation College for Boys, New Lalazaar Rawalpindi
2015	Matriculation	Fauji Foundation Model School, Gujar Khan

WORK EXPERIENCE

01/2020 Current TUKL-NUST Research Development Center

Research Assistant - My responsibilities include managing all the tasks related to development of Machine Learning models and deployment of ML models on Embedded Devices

06/2020 Current Ai-Lounge

Junior Instructor & Editor - My duties are to Organize Workshops, AI (Artificial Intelligence) Camps & Sessions, and manage the content to be delivered, on social media and on Official Website.

PROFESSIONAL & TECHNICAL SKILLS

Team Work	Research & Management teams - Learnt Collaboration
Leadership	Team Leader of multiple Research projects & Teams
Machine Learning	Medical Imaging, Python, Tensorflow, Keras, PyTorch
Embedded Devices	FreeRTOS, KEIL Development Environment, ADS

ACADEMIC PROJECTS

- Analysis of Oral Squamous Cells for detection of Cancer using Deep Learning.
- Deployment of ML on Edge Devices (Jetson Nano & Jetson TX2)
- Low Cost Scanner & Computational Pathology
- Dimmable LED Driver with Inrush Current Control
- COVID-19 (Website) (<http://covid.byethost31.com/19>)
- Synthetic Text Dataset Generation

Achievements

* Scholarship From General Manager Education Fauji Foundation for being high achiever in intermediate.

* Certificate of Appreciation by Principal SEECS for upholding academic excellence.

* Federal Board High Achievers Scholarship

Community Involvement

* Taught and interacted with the young minds of High School about the technological advancements

* Being part of Community service drives, e.g. 'Project Insaaniyat', collecting money to help people in need of it.

* Visits to Orphaned Child Charity Houses such as SOS Village to help raising them funds for Children care.

Extra Curricular Activities

* Organizer - 3rd IAPR Summer School on Document Analysis (Deep Learning Applications).

* Organizer & Instructor - Workshop on Artificial Intelligence on Edge Devices

* Guest speaker at IEEE-SEECS to share my thoughts on Significance of MATLAB in Machine Learning & Computer Vision domain to an audience of 160+ people.

Shaheer Mehmood Bhatti

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Career Objectives

A voracious learner irrespective of any domain. A scenario-oriented individual ready to face new challenges with innovative approach. Eager to put my excellent communication, management, analytical, and technical abilities to use in a professional organization

EDUCATION

2021	BEE	NUST - SEECS
2021	BBA minor	NUST - NBS
2017	Pre-Eng	FG - Sir Syed College, The Mall, Rwp Cant

WORK EXPERIENCE

July 2020 Feb 2021 NESCOM
Investigated new autonomous ways of channel sensing for 5G waveforms using deep learning to discover channel states, enabling transmitter adaptation to maximize link performance.

July 2018 Aug 2018 NRTC
Former intern at NRTC, Haripur Hazara. Worked on a subproject of manufacture of SDR part using the 3D printing techniques. Explored the manufacture and supply line of R&D, climate testing etc.

PROFESSIONAL & TECHNICAL SKILLS

Soft Skills	MS Office
Soft Skills	Leadership, Time Management, Risk Assessment
Technical	Digital Marketing
Technical	MATLAB, Pytorch, Python

ACADEMIC PROJECTS

Real Time Face Mask Detector using CNN on pytorch
Bluetooth car via Arduino Uno
Taxi Meter Fare Calculator (Digital Logic Design)
Hand Gestured Car via Arm Cortex M4
Pose Detection and estimation on Cambridge



Achievements

Best Executive - Admin Events NSS
Top 10 - ISMO
Top 50 - IKMC
Winner, Hot Air Balloon - IST WSW

Community Involvement

Intern - WWF
Mentor - ASAS International
Schools
Tutor - Step Ahead Welfare Society

Extra Curricular Activities

Mentor - ICAI '21
Campus Ambassador - L'Oreal
Joint Secretary - NUST Science
Society
Convener - National Science Bee'19
Director ER - FICS'20
Director SOC's - ON'19

HADI ASKARI

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Career Objectives

I want to work in a Machine Learning/Artificial Intelligence role. I have had experience in integrating ML with Computer Vision, NLP, Wireless Communication and Image Processing. I want to build my skills and work in challenging roles.

EDUCATION

2021	BEE	NUST H-12 - CGPA 3.65
2017	A Levels	Karachi Grammar School - Grades 3A*s 1A
2015	O Levels	Habib Public School - Grades 12A*s

WORK EXPERIENCE

May 2017 June 2021 TUKL Research and Development Center
Responsible for creating and implementing Machine Learning models for semantic slum mapping, aerial object detection, and 5G waveform optimization.

Aug 2020 June 2021 Advanced Machine Learning Teacher's Assistant
Created assignments in Pytorch, Keras, and Tensorflow for Graduate Students on topics such as CNNs, RNNs, GANs and Reinforcement Learning.

PROFESSIONAL & TECHNICAL SKILLS

Machine Learning	Python, Keras, Tensorflow, Pytorch, R.
Coding	Python, C++, C.
Web Engineering	PHP, jQuery, Javascript, SQL, HTML, CSS
Electrical	MATLAB, LabVIEW, ADS, Proteus, Verilog, KEIL, PSPICE.

ACADEMIC PROJECTS

Waveform Optimization using Neural Network based Real-Time Sensing in 5G Data Links.
Image Pose Regression using CNNs.
Understanding the limitations of SLAM and ORB-SLAM scene localization methods in non-standard datasets.
Facial Mask Detector using Pytorch.
Slums Mapping Semantic Segmentation.

Achievements

GRE 326 (163Q, 163V, 4.5AWA)
TOEFL 117 (30R, 28L, 29S, 30W)
SAT1 1510
SAT2 (Math, Chem, Phys) 2400
National Finalist, Huawei ICT
Competition 2020.
Finalist, National Physics Talent
Contest.
Gold Medalist, Kangaroo Maths
Competition
Winner, SUPARCO Space Quiz

Community Involvement

Intern at National Institute of Child
Health.
Intern at AKU Mental Health
Seminar

Extra Curricular Activities

Member of Parliamentary Debates
Team, NUST Debating Society.
Director Registrations, NUST
Olympiad 2019.
Team Lead IGET, AIESEC in NUST
2018-19.

Haniya Akhtar Anjum

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Career Objectives

I am self-motivated and responsible electrical engineering student of 4th year at NUST (National University of Science and Technology). My studies have provided me with a strong foundation for a professional career and having made projects across a range of domains, I am adaptable to work in any subdomain of electrical engineering and look forward to a career that will develop both technical and managerial skills.

EDUCATION

2021	BEE	National University of Sciences and Technology (NUST)
2017	F.Sc.	Punjab Group of Colleges
2015	O-Level	The City School

WORK EXPERIENCE

07/2018 08/2018 The Akhuwat Foundation

- Acted as liaison between the foundation and other institutions to promote the cause.
- Participated in the collection and distribution of clothes.

From	To	Organization
Brief summary of key responsibilities - work / research experience		

PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Python, Matlab, MASM, Excel VBA
Electronics	PSpice, Multisim, Proteus
Machine Learning	Tensorflow, PyTorch, Keras
Microsoft Office	Word, Powerpoint, Excel

ACADEMIC PROJECTS

“Complexotron” - A simulation of a machine language using object-oriented programming in C++ with a user-friendly interface and security features.
Solar Powered Street Light - A streetlight with an automated solar powered UPS implemented using the ARM Cortex M4.
Dual Chamber Heart Pacemaker - An implementation in FreeRTOS.

Achievements

Received the Chief Minister’s Award for securing 3rd position in Multan Board (April 2018).

Community Involvement

Project Insaniyat - Raised awareness and collected donations for a special education school in Islamabad for children with cerebral palsy.

Extra Curricular Activities

- Won in the ‘Class 7’ category of the ‘Mathathon’ competition to encourage activity-based learning for mathematics (February 2018)
- Was Executive Décor for the SEECS Declamation Chapter (SDC) from September 2018 to September 2019.



HASHAM MUKHTAR

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Career Objectives

Extremely motivated to constantly develop my skills and grow professionally. I am confident in my ability to come up with interesting ideas for emerging trends across the globe.

EDUCATION

2014	Matric	Military College Murree
2016	FSc.	Military College Murree
2021	Electrical	National University of Sciences and Technology, Islamabad

WORK EXPERIENCE

Jun-19 July-19 PAKISTAN TELECOMMUNICATION COMPANY LTD.

Worked on the Fiber Optical Networking Infrastructure laid by the PTCL. Worked on Networking, Routing, Switching of Core Optical Fiber Networking System for Domestic and Long-Haul Communication.

Aug-20 Sept-20 ARCTAN ENGINEERING SOLUTIONS PVT. LTD

Worked on a Smart Watch that was basically a Military Project. It tracks the Soldiers and Officers that are on Operation or Border where there are Weak Signals and normal GPS using GSM doesn't work.

PROFESSIONAL & TECHNICAL SKILLS

Embedded System	ARM Cortex M4, Assembly x8086, Embedded C
Machine Learning	Tensor Flow and PyTorch. Google Collab, Jupyter
Programming	C/C++, Python, Matlab, Data Structures in C++, Verilog
Electrical	Proteus, Pspice, Labview, Multisim, LogixPro, Wireshark

ACADEMIC PROJECTS

1. Solar Powered Street Light System with ARM Cortex Microcontrollers.
2. Spell Checker Dictionary With Data Structures. 3. Design Model of NUST with AutoCAD software. 4. 4-bit Binary Calculator using Digital Logic design. 5. Mobile Charging Device. 6. Bank Management System In C. 7. Breakout Clone with C++ and SFML.

Achievements

President MLH Local Hack Day.
Organized the Pakistan's Biggest DevFest in Islamabad in collaborations with Google Developers Group Cloud and Islamabad, GitHub, Microsoft and Telenor. Cadet Ambassador to Pakistan in Herman Loose Trophy, Colombo Sri Lanka.

Community Involvement

1. World Wild Life Federation- Worked on a development project named as "Energizing the Future" an Advocacy Campaign aimed to replace non-renewable sources of energy with renewable sources.

2. Project Insaniyat- A community service initiative project aimed at conducting an on campus donation drive for the children effected with Cerebral Palsy

Extra Curricular Activities

Cricket
Hockey
Basketball
Netflix
Global Affairs

IZZA HASHMI

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Career Objectives

Currently the student of electrical engineering, eager to make the positive change in her life and the society by adding value to them, through the knowledge of electrical engineering using technical and soft skills.



EDUCATION

2021 BE Electrical NUST, Islamabad
2017 FSc Punjab College F- 8/4 Islamabad
2015 Matric ICG F-6/2, Islamabad



WORK EXPERIENCE

From	To	Organization
Brief summary of key responsibilities - work / research experience		

From	To	Organization
Brief summary of key responsibilities - work / research experience		



PROFESSIONAL & TECHNICAL SKILLS

RF Energy	ADS, HFSS
Embedded System	Circuit Design for microcontroller, Proteus, MikroC pro
Circuit Design	Hardware Electrical Circuit Design, PSpice, Multisim
Soft Skills	Resilience, Responsible and Self motivated



ACADEMIC PROJECTS

Final Year Project: Rectenna Design for RF wireless power transfer applications
Semester Projects: Water Level Indicator -- in microprocessor
Aqua Lock -- in Digital Logic Design

Achievements

Current CGPA = 3.21(out of highest 4)
Achevied 91% in FSc and 93% in matric

Community Involvement

Participated in Project Insaniyat 17 held at NUST, Islamabad

Extra Curricular Activities

- 1) Animated Video on Powtoon for final year project
- 2) Animated and well designed academic presentation on prezi, an online software
- 3) Poster designing of final year project on canva
- 4) Exercise



Muhammad Haris Naveed

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Career Objectives

Final year electrical engineering student looking to get practical exposure in engineering and non - engineering domains. My diverse work experience and achievements are proof of my growth-oriented mindset, ability to work with others, a flair for problem solving, and creativity.



EDUCATION

2021 BEE SEECS - NUST
2017 HSSC Bahria College
2015 SSC HITEC



WORK EXPERIENCE

08-2019	09-2019	SkyElectric Pvt. Ltd
Machine Learning Intern - Implemented a proposed concept to predict PV produced from sky-images using convolutional neural networks.		

07-2018	09-2018	Spectra Magazine
Utilized exceptional writing, editing and proofreading skills to produce engaging and error-free content.		



PROFESSIONAL & TECHNICAL SKILLS

Engineering	MATLAB, PSpice
Programming	Python, R, Pandas
General	Teamwork, Conflict Resolution, MS Office



ACADEMIC PROJECTS

Automatic Traffic Intersection Controller on ARM Cortex M4 (Microprocessors)

Are housing prices in university towns less affected by recession than normal towns? (Data Analysis and Statistics)

Achievements

Semi-Finalist, Unilever Talent Hunt 2020

Finalist, FICS 2020

Community Involvement

Team Lead, Project Insaniyat
Eco - Intern, World Wildlife Fund

Extra Curricular Activities

Director Publications, NUST Olympiad 2019.

Social Media Manager, SGA - SEECS.



FULL NAME: Muhammad Usamah Shahid

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Career Objectives
Stay steadfast in learning and acquiring new skills as I strive to fulfill my responsibilities and contribute to the growth and success of the organization.
Keen interest in Artificial Intelligence and Game Development.

→ EDUCATION

2021	BEE	SEECs, NUST
2017	A Levels	Lahore Grammar School Johar Town
2015	O Levels	Lahore Grammar School EME

→ WORK EXPERIENCE

21/07/20	21/09/20	Sedenius Technologies
Schematic and PCB design for a CAN-based LED dimmer using Eagle and Arduino Micro		
10/06/19	9/08/19	Sigma Lab, SEECs
Research internship related to Deep learning, Computer Vision and Image Processing. Worked on Gaze Tracking project		

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C/C++ (OpenGL), Python, JavaScript (HTML/CSS)
Circuit Design	Eagle, ADS, Proteus
Microcontrollers	Arduino, Raspberry Pi, ARM launchpads
Field	Technical and Soft Skills

→ ACADEMIC PROJECTS

Smart EEG classifier for abnormality detection
3D Cricket Game
Maze Solver
Robotic Color Sorter
FreeRTOS based Windows Simulator

Achievements

Winner MTUDC 2015 (LGS Model Town)
Runners up Shahjiwana Urdu British Parliamentary Debates 2016 (UCL Lahore)
8th all over Pakistan IKMC 2014
Winner Inter-School English Parliamentary Debates (2013,2012)

Community Involvement

Book Donation Drive for a new library in TCF Lahore

Civic sense awareness presentations and seminar in public schools

Extra Curricular Activities

Director Parliamentary Debates (NUST Debating Society)

Director Logistics (NUST Robotics Society)

Deputy Director Finance (TEDx NUST 2019)



Muhammad Zeeshan Karamat

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Career Objectives
Passionate, Flexible, and Goal-oriented person who is determined to work with an organization, which provides opportunities for professional as well as personal development. I want to practically explore my potential to provide the best services to the organization

→ EDUCATION

2021	BEE	National University of Science and Technology
2017	HSSC	Pakturk International College
2015	SSC	Fauji Foundation Model School

→ WORK EXPERIENCE

Aug 20	Dec 20	leng Group
-Built a Security System for Telecommunication sites -Integrated AI with embedded system -Lead the installation team to install product on sites for testing		
June 20	Aug 20	Sedenius Technology Pvt Ltd
-Explored Embedded Systems research aspects of Self Driving Cars -Worked on designing of "RC Autonomous Car" -Developed schematics and PCB design for "RC Autonomous Car" in EAGLE		

→ PROFESSIONAL & TECHNICAL SKILLS

Languages	C/C++,Python, JavaScript, HTML, XML, PHP, Verilog HDL
Developer Tools	MATLAB, AutoCAD, Proteus, Eagle, KEIL, IAR embedded
Hardware	Arm cortex M4, Arduino, Esp, GSM module, stepper motor
Soft Skills	Adaptability, Time Management, Project Management

→ ACADEMIC PROJECTS

-Low Cost Whole Slide Image Scanner with Deep learning Applications
-AI based Base Station Security System
-FreeRTOS based Home Automation and Security System
-Voice Controlled Wheel Chair using Arm Cortex MCUs
-Line Following and Obstacle Avoiding Robot

Achievements

-Among the first batch of NVIDIA certified AI Jetson specialists in the world
-Best Delegate Award at Wilderness Based Conference "Markhor"
-Full Merit Scholarship at Pakturk College

Community Involvement

-Volunteer at Helping Hands
-Volunteer at Alkhidmat Foundation
-Volunteer Taba Youth Club Nust

Extra Curricular Activities

General Secretary Youth Insight
Director Finance NEC
Director Finance SEECs Farewell19
Deputy Director Finance NAC
Team Member Finance Orientation
Team Member HR TABA
Team Member Admin Events NLC
Team Member Marketing Youth Impact



Muhammad Ahmad

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Career Objectives

Looking forward to a position where I can fully utilize my training and skills while making a significant contribution to the success of the company. The long-term goal is to develop my own enterprise focused on sustainability and work towards UN's sustainability goals.

→ EDUCATION

2021	BE EE	National University of Sciences and Technology (SEECS)
2017	HSSC	Punjab College of Science
2015	SSC	Al Faisal Grammar High School, Faisalabad

→ WORK EXPERIENCE

July, 18 Aug, 18 Northern Power Generation Company, GENCO III
Worked as an intern on gas turbines, boilers, generators, HV electric grids, steam power production, and CT/PT. Researched on how to reduce lines losses and improve the efficiency of relays.

Jun, 19 Jul, 19 Pakistan Telecommunication Company Limited
Worked on the Fiber Optical Networking Infrastructure laid by the PTCL. Worked on Networking, Routing, Switching of Core Optical Fiber Networking System for Domestic and Long-Haul Communication.

→ PROFESSIONAL & TECHNICAL SKILLS

Microcontrollers	ARM CORTEX M4, Arduino, ESP 32
Progarmming	C/C++, Python, Matlab, Data Structures in C++, Verilog
Simulation Software	Proteus, Pspice, Labview, Multisim, PSCAD
SEO	Link Building, Content Marketing, On-Page SEO

→ ACADEMIC PROJECTS

- English alphabets to Braille Coverter | Digital Logic Design |
- Precision Stepper Motor Control | ARM CORTEX M4 Tiva |
- Demand Response Based Control of AC using Model Predictive Control | ESP 32/Android Studio/MPC/Python/MATLAB |

Achievements

- NUST High Achiever's Award, 18'
- Top Rated Freelancer on Upwork
- Participant of Harvard Crossroads Emerging Leaders Program (Dubai)
- Team prototype I Dubai Future Accelerators I

Community Involvement

- Team Lead for a fundraising event for specialized toys for a Cerebral Palsy ward.
- Worked with Akhuwat Foundation to provide clothes and Qarz-e-Hasaana to the deserving.
- Ambassodor for Qalam Program

Extra Curricular Activities

- Treasurer I IEEE-SEECS I
- JS to Tresurer I Nust Bioreach Society I
- Admin Events I Nust Robotics Club I
- Admin Events I SGA I
- E-Gaming and Cricket



Mashhood Ahmad Qureshi

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Career Objectives

Looking for learning opportunities.

→ EDUCATION

2021	BS Electrica	NUST-SEECS, Islamabad
2016	HSSC	Punjab Board, Multan
2014	SSC	Punjab Board, Multan

→ WORK EXPERIENCE

07/2018 08/2018 Akhuwat Foundation, Multan
Collection and distribution of funds among poor - Internship

06/2018 07/2018 Pepsi Shamim & Company (PVT) LTD, Multan
Practical Training at (PC&IS) - Internship

→ PROFESSIONAL & TECHNICAL SKILLS

Softwares	Matlab,Proteus, AutoCad, MS Office, Pspice, VisualStudio
Languages	C,C++, JAVA, 8086 Assembly
Professional Skills	Multitasking,Problem Solving,Smart Working

→ ACADEMIC PROJECTS

- Digital Multi-meter using ARM CORTEX
- 4-Bit Magnitude Comparator using Digital Logic Design
- Design and drafting of the ground map and buildings of NUST using autoCad

Achievements

- Volunteer Peace Conference Participant of Pakistan's biggest peace initiative Volunteer Peace Conference 10/2019
- Award from IPO Pakistan and US Embassy Slogan Competition 04/2019

Community Involvement

- Mall of Humanity-Youth Insight,Islamabad(07/2019)
- Volunteer Work SOS Village, Islamabad(02/2018)
- Project Insaniyat-Al-Farabi Special Education Center, G-8 Islamabad (10/2017)

Extra Curricular Activities

- Freelancing
- Event Organizing
- Cricket

Moazama Irfan

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Career Objectives

My goal is to learn as much as possible and work in the field of RF and embedded and combine my knowledge of both fields to make innovations. I want to work at such a place where I can use my problem solving and analytical skills to solve challenging problems. I am a deadline-oriented person and want hands-on experience by working in an emerging industry.

→ EDUCATION

2021 BS EE National University of Sciences and Technology (NUST)

2017 FSc Lahore College for Women and University (LCWU)

2015 Matriculation Ala ud Din School, Lahore

→ WORK EXPERIENCE

Aug 2020 2021 MDI Lab, RIMMS, NUST
Design of FSS for FYP, Antenna fabrication and testing.

2017 2019 Brainly Website
Freelancing tasks, Solving problems for solution manuals and other content like that.

→ PROFESSIONAL & TECHNICAL SKILLS

Software	CST, AutoCad, LabView, Proteus, Xilinx, PSpice, Multisim
Programming	C/C++, MATLAB, Python, Verilog HDL, Arduino, MASM
Hardware	PCB design, Antenna Design and fabrication, Soldering
Boards	ARM, Arduino, ESP8266, FPGA

→ ACADEMIC PROJECTS

Design and Analysis of Conformal Frequency Selective Surface (FSS) for Radome Applications
Home Automation System by using ARM
Dual Chamber Heart Pacemaker by using FPGA
Image Segmentation by using K-means Algorithm
3D modeling of NUST by using AutoCAD



Achievements

Top 20 finalist for International Mathematical Olympiad Training Camp

Community Involvement

Summer Internship at Akhuwat Foundation (2018)

Fund raising campaign for Insanniyat Project

Clothes Collection for Street Store (TABA)

Extra Curricular Activities

Painting and Sketching

Badminton

RPG and Strategy games

Socializing

MUBASHRA ZAREEN

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Career Objectives

I want to pursue my career as an electrical engineer to use all my technical and soft skills which I have learnt in 4 years at Nust. I want to work in an environment where I can apply my knowledge of my field, and can gain some useful experience.

→ EDUCATION

2021 Electrical En SEECS, NUST

2016 HSSC Chanab School and College, f-8/4, Islamabad

2014 SSC Al Qamar Grammar Higher Sec. School, Isa khel.

→ WORK EXPERIENCE

Jun 2019 aug 2019 ROMILab, SEECS
Interfacing Ros with EV3 Lego Robot. it let Lego robot to be used as a hurdle Detector.

Jul 2018 Aug 2018 Advance Learning School, Islamabad
Teaching students of grade 9 and 10th.

→ PROFESSIONAL & TECHNICAL SKILLS

Technical	C++,C
Technaical	Matlab, Pspice, PsCad
Soft	Communication skills(Eng,Urdu)
Technical	LogixPro (PLC)

→ ACADEMIC PROJECTS

Finding Shortest Path between two points using Dijkstra's logic.it finds the shortest distance between two cities.
Smart Home Automation using ARM Cortex M-4.
Library Management System using C++.



Achievements

Got 1st position in 9th grade in Tehsil.
Attended a workshop on Lego Robot in SEECS.

Community Involvement

I was part of a project named 'Insaniat' in which we visited a special kids school with gifts, and spent a day there.

Extra Curricular Activities

Book Reading.
Cooking.
Photography.

Muhammad Hamza Siddique

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Career Objectives

To implement engineering knowledge in modeling solutions of real life problems and get hands on experience in practical world of technology.

→ EDUCATION

2021 BEng. SEECS,NUST,H-12 Islamabad Pakistan
2017 HSSC PAKTURK International College Islamabad.
2015 SSC IMCB F-8/4 Islamabad

→ WORK EXPERIENCE

June 2020 Aug 2020 NESCOM
Worked on project "DRFM Radar Implementaion on FPGA"
Amalgumation of DSP and Embedded systems knowlwdge to achieve desired objective.

July 2020 Mar 2021 lenegeering Group
Worked on project "Base Station Security System", created datasets at BTS sites in Pakistan for AI model. Implemented MobileNet classification model on NVIDIA Jetson Nano. Integrated AI system with GPS module and IP camera.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming C/C++, Ladder,Python, HTML/CSS,Javascript
Embedded FPGA, Arm Cotex
Softwares MATLAB, Simulink,Quatus,EAGLE,Visual Studio,AutoCad
Management Lead of several tecnical and social projects

→ ACADEMIC PROJECTS

1. Integration of Robot Oprerating System ROS on Lego Kits.
2. System manager on RTOS
3. Barcode Decoder using Computer Vision and Image Processing
4. Wireless Charger
5. Autonomous path tracking robot

Achievements

- 1. Fellowship Holder of National Enginnering and Scientific Commision (NESCOM).
- 2.Became Director Associates in Youth Insight.
- 3. Ambsador intl HONET Conference
- 4.Project Lead and Manager for ieng. project.

Community Involvement

- 1) Offical Ambassador of Helping Hands USA
- 2) Co-led community service program "Meet the Seniors", aimed at carrer counselling of High School students.
- 3) Led community service project " Mall of Humanity", to distribute cloths among the needy people in backward areas of Rawalpindi.
- 4) Member ASWAN (ACM Welfare Chapter)

Extra Curricular Activities

- 1. Team member ASWAN ACM.
- 2. Director Associates Teams Youth Insight.
- 3. Organize ACM Hackathon.
- 4. Member Organization committee of Intl HONET conference.
- 5. Member of SEECS Orienation committee 2019.
- 6. Member Scial media team in Youth Insight.



Muhammad Huzaifa

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Career Objectives

Determination is all it takes to reach the desire destiny. I am a determine person who believes in himself. My long-term goal is to secure a responsible job/internship to completely utilize my training and skills, whereas creating a major contribution to the success of the organization.

Electrical Engineer

→ EDUCATION

Year 2017-21 Degree BSc EE Institute University of Science and Technology
Year 2015-17 Degree FSc Institute Punjab College
Year 2013-15 Degree Matric Institute Sir Syed Cambridge School

→ WORK EXPERIENCE

From 03-2020 To 05-2020 Organization SuperTeacher
Content Creator at SuperTeacher
• Created data of 1000 MCQs of Physics entry test
• More than 2500 students benefit from this
• Learned to understand supervisor demand and meet the deadlines

From 03-2019 To 04-2019 Organization The Citizen Foundation
Team Lead at The Citizen Foundation
• Teach the students of underprivileged area through different activities
• Students showed significant improvement in speaking, confidence and class participation
• Lead the team of 12 teachers from different background. Learned leadership skills, effective communication skills and time management.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming Python, C,C++ programming
EE Software MATLAB, LabVIEW, AutoCAD, Proteus
General Software MS Office
Soft Skill Communication Skills, Leadership skills, Networking

→ ACADEMIC PROJECTS

Gesture to Speech for mute person (FYP)
Obstacle Avoiding Car
IOT based sensor detection
Tic Tac Toe game on Python

Achievements

Community Involvement

- Teaches students of underprivelege area at The Citizen Foundation
- Volunteer at Share the Happiness (Ramzan Special) where we distributed food among poor's at PIMS
- Volunteer Project "Insaniyat" where we collect funds and bought books and toys for orphans

Extra Curricular Activities

- Deputy Director at NUST BioReach Society
- Executive member at Honet ICT Islamabad
- Executive speaker at SEECS Declamation Club
- Executive admin event member at NUST leadership society Here



FULL NAME: Muhammad Qasim Noor

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LinkedIn profile LinkedIn ID: https://www.linkedin.com/in/muhammad-qasim-n-49a282130/

Career Objectives

Driven, Motivated and Disciplined. Electrical Engineering major (3.76 GPA) currently attending National University of Sciences and Technology, with 1+ years of work experience. Aiming to leverage a proven knowledge of power systems, control systems, distribution processes, quality and safety compliance skills to successfully fill the Electrical Engineer role at your company. Frequently praised as adaptable by my peers, I can be relied upon to help your company achieve your goals.

→ EDUCATION

- 2021 BE National University of Sciences and Tehnology
- 2017 A-levels Pakistan International School Jeddah - English Section
- 2015 O-Levels Pakistan International School Jeddah - English Section

→ WORK EXPERIENCE

- Jun 20 Sept 20 Al Jazirah Engineers and Consultants
Electrical Lighting Design Cable Sizing Panel Scheduling Breaker Sizing
Electrical Single Line Diagrams Lighting and Power Layout Design
- Dec 18 Mar 19 Siemens
Training in Siemens Factory Jeddah. Training on Siemens Swicthgear: NX Air, NX-C, NX-Plus

→ PROFESSIONAL & TECHNICAL SKILLS

- Engineering Revit MEP
- Engineering Matlab and Simulink
- Engineering Basic Electrical Safety and LOTO
- Engineering Arduino

→ ACADEMIC PROJECTS

Final Year Project on harnessing renewable energy from running water channels and irrigation canals at a micro level to power rural homes and street lights etc. Designing of controller using LQR method.

Achievements

- IRCA/CQI Certified ISO 9001:2015 Lead Auditor
- NEBOSH International General Certificate in Occupational Health and Safety
- Solar Energy Basic Training

Community Involvement

Director Marketing and Sponsorships at student based welfare organisation named Youth Insight.

Extra Curricular Activities

- Horse Riding
- Swimming
- Declamation
- Event Hosting
- Event Management



Muhammad Owais

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LinkedIn profile none

Career Objectives

Capable of planning/goal setting , problem solving and conflict managment. my objective to get a job in which i can utilize best of my skills which i learned in my degree, from my peers and online courses so that i can strive for a better future..

→ EDUCATION

- 2015 Matric Central Public School Khanpur
- 2017 F.Sc Alpine college of sciences Khanpur
- 2021 B-EE NUST

→ WORK EXPERIENCE

- 2019 present IOT lab seecs
Research Assistant:
Performed in-depth electrical acceptance testing of completed hardware.

→ PROFESSIONAL & TECHNICAL SKILLS

- Soft skill Good communication skills
- Technical skills Embedded Application
- Technical skills Machine learning
- Technical skills Raspberry Pi

→ ACADEMIC PROJECTS

AgriEye:
its a realtime wheat rust detection system capable of determining the percentage of leaves affected by rust.
Health monitor : capable of sending info about heart rate and location over long ranges using LoRa wan.

Muhammad Sulaiman Nadeem

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Career Objectives

Utilize my knowledge and skills of Artificial Intelligence and Embedded Systems (Deep Learning and RTOS - Real Time Operating System) to make real time solutions for SDGs (Sustainable Development Goals), specially for rural places in my home country. This will be helped on by attaining a masters degree in robotics and autonomous systems as it will broaden my knowledge in the aforementioned domains.

EDUCATION

2021 Electrical En NUST - SEECS
2017 Pre-Eng. AHISK - Saudi Arabia
2013 Science AHISK - Saudi Arabia

WORK EXPERIENCE

Sep 2020 Oct 2020 ASP Lab SEECS

Worked on creating a real time facial recognition system with collaborative learning. The system was deployed on EDGE devices. This was achieved by using state of the art algorithms with low latency and max possible accuracy.

PROFESSIONAL & TECHNICAL SKILLS

Coding Languages Python, MATLAB, C and MYSQL
Software Tools VS Code, Anaconda, Google Colab, Kaggle,
Frameworks Tensorflow, Keras, Pytorch, Numpy,scikit-learn, FreeRTOS
Communication Oral, Presentation, Writing, Listening

ACADEMIC PROJECTS

- Real Time Internet Traffic Control and Monitoring (FYP)
- 3 Digit Code Activated Door Lock System
- Ludo Video Game
- Transportation Management System

Achievements

Highest Achiever Shield Award in High School (Grades 11 and 12) - AHISK, Saudi Arabia

Community Involvement

AI/ML Core Team Member at Google Developers Student Club (DSC - NUST) : Worked towards educating people (through workshops), and providing real life solutions using AI.

Extra Curricular Activities

Project Insaniyat - Semester 2 : Helped by taking donations within NUST from hostelites to pay for toys for children with cerebral palsy.



Muhammad Uzair Khattak

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Career Objectives

Electrical Engineering bachelor student having interest in Deep Learning, Computer Vision, Embedded Systems and Data Science. I am passionate about combining these domains to build intelligent systems that would impact people all over the world.

EDUCATION

2021 BEE National University of Sciences and Technology, Islamabad
2017 HSSC Punjab College of Science, BLUE AREA, Islamabad
2015 SSC Islamabad Model College for Boys, G-9/4, Islamabad

WORK EXPERIENCE

08/2020 12/2020 Sedenius Technologies and SEECS, NUST

Worked as Embedded Systems Engineer (contract base). Explored embedded systems research areas of Self Driving Cars. Proposed Electronic design and Embedded System for "Mobile Data logger for Test-bed scale car"

07/2020 3/2021 i engineering Group

Worked on project "Base Station Security System", created datasets at BTS sites in Pakistan for AI model. Implemented MobileNet classification model on NVIDIA Jetson Nano. Integrated AI system with GPS module and IP camera.

PROFESSIONAL & TECHNICAL SKILLS

Artificial Intelligence ML/DL using PyTorch, Keras , fast.ai, OPENCV libraries
Developer tools EAGLE, Autocad, Visual Studio, Linux, Tableau, Anaconda
Progammg C/C++, Python, MATLAB, SQL, Javascript, HTML/CSS
Communication 7.5/9.0 overall score in IELTS academic test

ACADEMIC PROJECTS

- 1) Design of Whole Slide Image (WSI) Scanner with Deep Learning applications
- 2) Wireless Charger
- 3) Optimizing Deep Learning models using TensorRT library on edge devices
- 4) Real-time Home Automation System with FreeRTOS and IoT devices
- 5) Real-time Facial Mask detector using Deep learning

Achievements

- 1) High achievers award recipient from DEAN of SEECS
- 2) Featured in official blog of NVIDIA
- 3) Among the first batch of NVIDIA AI Jetson Specialists in the world
- 4) Appreciation letter and shield award from president Youth Insight
- 5) Best Semester project award in Machine Learning course

Community Involvement

- 1) Offical Ambassador of WWF and Helping Hands USA
- 2) Co-led community service program "Meet the Seniors", aiming to connect high school students with undergraduate university students from various fields for face-to-face mentorship sessions
- 3) Led community service project "Mall of Humanity", to distribute cloths among the needy people in backward areas of Rawalpindi

Extra Curricular Activities

- 1) Leading SEECS table tennis team as team captain since 2019
- 2) Orientation leader in NUST Orientation 2019
- 3) Participation in international competitions
- 4) Team member @ NUST Leadership Society



NAYYERA NAEEM

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LinkedIn profile Nayyera Naeem

Career Objectives
I am passionate about bringing change in the society through my expertise and skills. I am looking forward to contribute my part to pave ways for innovative and creative solutions as a professional.

→ EDUCATION

2021 BE Electrica National University of Sciences and Technology
2017 Intermediat Punjab College, Bhara Kahu
2015 Matriculatio The Rise International School, Bhara Kahu

→ WORK EXPERIENCE

From To Organization
Brief summary of key responsibilities - work / research experience

From To Organization
Brief summary of key responsibilities - work / research experience

→ PROFESSIONAL & TECHNICAL SKILLS

Programming C, C++
Simulation Pspice, Proteus, Multi-SIM, LABView, MATLAB, ADS
Design AUTOCAD, Adobe Illustrator
More Verilog HDL, ARM Cortex.

→ ACADEMIC PROJECTS

Cost effective fault location system for underground distribution systems.
Line following robot using Arduino and infrared sensors.
Bluetooth controlled robot using Arduino.
3D view of NUST using AUTOCAD.
Multi-tone frequency generator using ARM Cortex M4.

Achievements

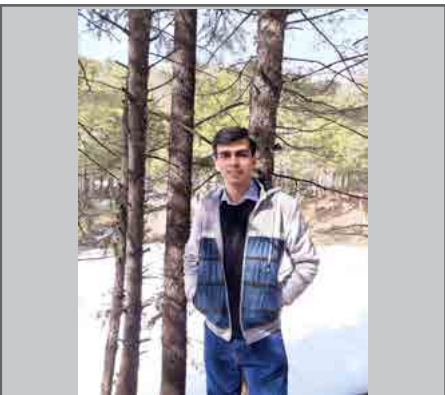
Honors, Awards or any other Worth Mentioning Achievements

Community Involvement

Project Insaniyat 2017.
Mall of Humanity by Youth Insight 2019.

Extra Curricular Activities

Executive Marketing and Sponsorship in Youth Insight.
Executive Marketing in NUST Entrepreneurs Club.
Executive Finance in NUST Finance Club.
Executive Marketing for Open House 2018.
Executive Décor for Welcome 2018.



MUHAMMAD SERAT HUSSAIN

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Career Objectives
I am an Electrical Engineering undergraduate from NUST. I am an enthusiastic, quick-learning and hardworking individual. I am interested in Deep Learning, Computer Vision and their applications in innovative organizations.

→ EDUCATION

2021 BE EE SEECS,NUST.
2017 HSSC Army Public College, Pano Aqil Cantt.
2015 SSC Army Public School, Bahawalpur Cantt.

→ WORK EXPERIENCE

Aug 2018 Sep 2018 609 EME Regional Workshop, Pano Aqil Cantt.
I debugged modules of military communication equipment and implemented the proposed solutions. I had to keep a record of all the faulty equipment, send progress reports to the units and ensure timely dispatch of the repaired modules
Oct 2020 Jun 2021 Research Intern, CEFAR Lab, SEECS.
Worked on Deep Learning projects related to object detection, testing algorithms such as YOLO and SSD.

→ PROFESSIONAL & TECHNICAL SKILLS

Deep Learning Object Detection
Data Science Data analytics and data cleaning
Proj. Management Good leadership skills, Active team-player
Image Processing Image Enhancement

→ ACADEMIC PROJECTS

AI Based Target Identification, Tracking and Automatic Change Detection for Multi-copter UAVs (Final Year Project)
RFID based Door Lock Scanning System
Hospital Management System

Achievements

High Achiever HSSC Annual Examination 2017
High Achiever SSC Annual Examination 2015

Community Involvement

Project Insaniyat (2017) : I, along side my classfellows generated funds through different charities, bought some neccessities for the orphans at SOS village and spent a day with them.

Extra Curricular Activities

President, Student Council, Army Public College, Bahawalpur (2016)
Cricket Team Captain, College Team, Bahawalpur Cantt (2016)

SIRAJ MUNEER QAZI

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Career Objectives

Undergraduate student researcher and a freelance programmer passionate about computers and modern technological trends. Experienced in C,C++,Python and Java, Intel x86/ARM Assembly, hardware design on FPGAs (Verilog, VHDL) using Xilinx tools, TensorFlow, Keras, PyTorch) and Linux administration. Actively learning newer skills to diversify my skillset so as to come up with effective, innovative and scalable solutions that tackle a wide range of technological challenges.

→ EDUCATION

2021	BEE	National University of Sciences and Technology (NUST) Isb
2017	HSSC-II	Army Burn Hall College For Boys, Abbottabad
2015	SSC-II	Army Burn Hall College For Boys, Abbottabad

→ WORK EXPERIENCE

Sep 2019 - Present TUKL-NUST Research & Development Center

Currently working on accelerated deep learning for real-time inference on aerial imagery for disaster management (FYP). Previously worked on acceleration and optimization of deep convolutional binarized neural networks on FPGAs.

Feb 2019 Mar 2019 Center for Research In Modeling, Simulation & Vision

Collaborated with a team of software and game developers to build a distributed simulation desktop application (under Windows) using open-source Portico as the RTI for the HLA system.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C,C++,Python,Java,Bash, MATLAB, HTML, CSS, JS
Machine Learning	PyTorch,TensorFlow,Keras, Pandas,NumPy,Matplotlib
Operating Systems	Linux, Windows, Android, Raspbian
Professional Tools	Xilinx Vivado, Keil uVision, Visual Studio, PSpice Designer

→ ACADEMIC PROJECTS

- 1-Accelerated inference of deep neural networks on FPGAs
- 2-Real-time Face Detection with FreeRTOS and OpenCV
- 3-SEECs-NET (Social network in Laravel (PHP) / HTML5/CSS3/JS)
- 4-Highway-Crossing Traffic Flow Control Simulation (ARM Cortex M4)
- 5-Complexotron (A machine language, and a computer CPU simulator)



Achievements

National Finalist I Huawei ICT Competition 2019-20
Runner Up Speed Programming - NUST Olympiad
Fiverr Level 1 Seller in C/C++ Desktop Applications

Standardized Scores
IELTS: Band 8.0 Overall

Community Involvement

Community Service Intern
I Akhuwat Foundation

Worked as a Community Service Volunteer at Akhuwat Regional Office Abbottabad, visiting the local borrowers of Akhuwat Loan scheme and producing a survey report on how Akhuwat has positively changed their lives and has enabled them to start their own microfinance businesses to support their families.

Extra Curricular Activities

HONET-ICT Conference 2018: Participated in the 15th IEEE International Conference on High Capacity Optical Networks & Enabling/Emerging Technologies (HONET-ICT) 2018 as a Research Assistant, attending seminars and guest lectures by IT Experts and Professors from international universities on Surveillance using Unmanned Air Vehicles(UAVs), Internet of Things and Cyber Security.



Syed Wasif Wajahat

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Career Objectives

My Bachelor's degree is mainly focused on the fields of Industrial Process Control, Power System (Analysis, Design and Protection) and Control Systems. My academic projects are based on these fields and I hope to establish my post-graduate, career around the above mentioned courses.

→ EDUCATION

2017	BS EE	NUST-SEECs
2015	HSSC	APS ACS, HAMZA CAMP, RWP
2013	SSC	APS ACS, HAMZA CAMP, RWP

→ WORK EXPERIENCE

2020 Present NUST-SEECs

Working on my Final Year Project, Controlled Greenhouse Tomato Growth, IoT Based with Thingspeak Monitoring. The goal is to develop a controlled environment for optimal growth of not only tomatoes but any plant.

→ PROFESSIONAL & TECHNICAL SKILLS

Industrial Processes	PLC Programming
Power Systems	MATLAB & Simulink
Control System	MATLAB & Simulink
Power Electronics	Simulink Modeling

→ ACADEMIC PROJECTS

- 1)Controlled Greenhouse Tomato Growth, IoT Based with Thingspeak Monitoring.
- 2)Voice Controlled Wheelchair using ARM CORTEX(M4) with Android APP control.
- 3)Snake Game in C++ using OOP and SDL Libraries.
- 4)KAMIKAZE Car Racing Game in TURBO C++.



Wajahat Ali

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Career Objectives

I am enthusiastic young professional intending tp start my career as an Electrical Engineer with an excellent academic profile and practical experience through various semester projects and finaal year thesis. I am passionate to become a part of a company where I can enhance my professional knowledge and benefits the company with maximum of my abilities.

→ EDUCATION

2021	BEE	National University of Sciences and Technology (3.76/4)
2017	F.Sc.	Cambridge College, Pakpattan (989/1100)
2015	Matric	Govt. M.C High School, Pakpattan (987/1100)

→ WORK EXPERIENCE

→ PROFESSIONAL & TECHNICAL SKILLS

Softwares	Proficient in Word, Excel, PowerPoint and MATLAB
Graphics	Proficient in illustrator

→ ACADEMIC PROJECTS

- Micro Hydro Power Generation Unit
 - o Designing a vertical turbine system for rural hamlets with automated gate control which will help maintain the flow of water through the turbine.
 - o Simulation for the gate control, vertical turbine unit and the generation unit has been completed on matlab.

Achievements

- o I was awarded Millennium Fellowship, a combined effort of United Nations Academic Impact (UNAI) and Millennium Campus Network (MCN)
- o Also awarded full bachelor and Intermediate Scholarship from PEEF

Community Involvement

- Millennium Fellowship 2020
- o Lead a team of 15 individuals including two Millennium fellows for the food drive.
- o Raised around 0.5 million rupees in collaboration with Froods .
- o Distributed the healthy food amongst poor in G11 and E11, Isla

Extra Curricular Activities

- Street School Director , Chadar (Sept 2019- May 2020)
- o Lead a team of 20 individuals, prepared and taught lessons to Afghan Refugees resided in the backside of NUST.

- o Conducted many fun activates like sport gala, drawing competition, and plantation drive.



Zahra Javed

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Career Objectives

Final year student of Electrical Engineer looking for job in domain of Electronics or Power, while applying my entrepreneurial and other non-technical skills to establish my own business.

→ EDUCATION

2021	BS Electrica	NUST-SEECS, Islamabad
2016	HSSC	Federal Board, Islamabad
2014	SSC	Federal Board, Islamabad

→ WORK EXPERIENCE

- 07/2020 Present Academics Online
- Online Teaching for IGCSE Mathematics and Physics Courses Part-Time Job
- 07/2019 08/2019 TCD (The Cryds Daily)
- Data Entry for Android Games Internship

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C,C++,8086 Assembly
Softwares	Matlab,Proteus, AutoCad, MS Office, Pspice, VisualStudio
Professional Skillls	Hardworking,Multitasking,Time managment

→ ACADEMIC PROJECTS

- Design and Development of Fast Circuit Breaker for DC Microgrids
- Timer Circuit that Controls a Relay Using Arduino
- Solar Powered LED Street Light with Auto Intensity Control,using Microcontroller ARM CORTEX(M4)
- Design and drafting of the ground map and buildings of NUST using AUTOCad

Achievements

- Introduction to the Internet of Things and Embedded Systems (03/2020 – 04/2020) Coursera-University of California, Irvine
- Introduction to Business Analytics: Communicating with Data (07/2019-08/2019) Coursera-University of Illinois

Community Involvement

- Mall of Humanity-Youth Insight,Islamabad(07/2019)
- International Eco-Internship Program, WWF Pakistan(7/2018)
- Volunteer Work SOS Village, Islamabad(02/2018)
- Project Insaniyat-Al-Farabi Special Education Center, G-8 Islamabad (10/2017)

Extra Curricular Activities

- Co-founder of clothing business
- Dress Designing
- Photography
- Freelancing
- Art and Craft work



HADIA SALEEM

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Career Objectives
I am currently in my 8th semester. I am a enthusiastic, hardworking and person with good team work and leadership skills. I expect to work in a place with a good friendly work environment, with lots of learning opportunities.

→ EDUCATION

2021	BEE	Nationa University of Science and Technology
2017	Fsc	Punjab College
2015	Matric	Radiant Secondary School

→ WORK EXPERIENCE

6/1/2020	7/21/2020	CNS Engineering
I mainly worked as a front end developer but did a little work on the backend development too.		
07/2018	08/2018	World Wide Fund (WWF)
I worked as internee with WWF. I along with my team did a project on conservation of organic waste.		

→ PROFESSIONAL & TECHNICAL SKILLS

Web Development	HTML, CSS, java, Bootstrap, Nodejs
Circuit Design	Patching and analysis of circuits, multisim, proteus, Labview
Embedded System	IoT projects, Atmel Studio, Labview
Programming/Archite	Visual Studio, ADS, AutoCAD,

→ ACADEMIC PROJECTS

Combating COVID-19 Using IoMD and AI
I am currently working on a Machine Learning(ML), Web Development and Internet of Things(IoT) based smart healthcare project.
IoT Based Motion and Temperature Sensor Networks

Achievements

2020-21 Technology infusion grand challenge Asia:
My Team has been selected to proceed in the first stage of 2020-21 Technology infusion grand challenge Asia.
Our review paper entitled AI-Enabled Internet of Medical Devices (IoMD) has been submitted for possible publication.

Community Involvement

SOS School Vsit
Project Insaniyat:
Worked as a team lead for project t and raised funds of upto 40k for Pakistan Sweet Home
Wheel Chair Distribution:
Currently working as team lead for distribution of wheel chairs among the differently abled members of society.

Extra Curricular Activities

NUST Literary Circle
Admin Events (2017-2019)
National Literary Festival (2018)
Admin Events
NUST Media Club (2018-2020)
Deputy Director Finance
SEECs Open house OC'18



Khan Moeen Danish

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Career Objectives
Always looking for opportunity to learn and grow. Never to settle for anything less than my best. Want to be part of an organisations that challenges me and enables me to have a positive impact on society.

→ EDUCATION

2021	BEE	SEECs, NUST H12 Campus (CGPA: 3.48)
2017	A-Levels	FFC Grammar High School (Result: 2A*s & 1A)
2015	O-Levels	Beaconhouse School System RYK (Result: 8A*s)

→ WORK EXPERIENCE

Jul 2019	Sep 2019	Maintenance Intern, Fauji Fertiliser Company Goth Machi.
Was given an overview of electrical instruments, their working and process of maintenance on the Urea plant. Acquainted with the process of developing logic for PLC's used on the plant, through a small assignment.		
Sep 2017	Nov 2018	Partnership development executive, AIESEC International.
Volunteer work in an international organization that sends students abroad for cultural exchange. Was part of the Partnership development team, responsible for establishing relations with companies and bringing sponsorships.		

→ PROFESSIONAL & TECHNICAL SKILLS

Leadership	Have lead national level events like Science Bee.
Programming	Procient in C/C++, MATLAB, and Python.
Embedded Systems	Extensive knowledge on multiple Micro-processors.
Communication Skills	Winner of MUNs, debates and great at working in teams.

→ ACADEMIC PROJECTS

BioRadar - Contactless Vital signs monitoring using millimeter-wave radar: Final Year Project to develop an IoMT device to monitor respiration rate, heart rate and heart rate variability without contact.

ARM M4 based bio-metric attendance device: Programming micro-controller and integration of hardware for working model of attendance device.

Achievements

Gold Medalist at FFC Grammar High School in A levels.

Silver Medalist (twice) in International Kangaroo Math Competition.

Best Delegate, MUNEG 15

Community Involvement

Community Service Project:
Teaching Digital Skills To Help People Obtain New Marketable Skills.

Blood Donation: Involved in multiple blood donation drives.

Volunteer teaching at government middle school in the village of Shakir Kot, Rahim Yar Khan.

Extra Curricular Activities

Press Secretary, Nust Science Society. Leading a 5 different teams with about 30 members.

Event Head, Science Bee '19. Organising science competition with 300+ students from all over pakistan.

Team Registrations, NUST International Model United Nation.

Executive debating team,NUST Debating Society



Muhammad Raees Arshad

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Career Objectives
An Electrical Engineer with an expertise in Embedded Systems, Electronics, and FPGA programming. I am passionate about moving forward in these domains.

→ EDUCATION

2021	BEE	NUST SEECS
2017	HSSC	PAKTURK International
2015	SSC	Institute

→ WORK EXPERIENCE

2020	2021	AUTOMATION ENGINEERING INTERN
Worked on project "Base station security system", explored different solutions which included AI based camera system integrated with Embedded device.		

2020	2021	NESCOM
Simulated an END to END radar on MATLAB. Working on ECM (Electronic Counter Measures) techniques to deceive a hostile radar and verified our result using the simulation created. Developing GUI for managing and operating RADAR.		

→ PROFESSIONAL & TECHNICAL SKILLS

EE	FPGA Design
EE	MATLAB&Simulink
EE	Microcontroller STM Arm andAtmel
SE	C/C++/C#

→ ACADEMIC PROJECTS

Discrete Radio Frequency Memory (DFRM) based RADAR deception System using FPGA's
Real-time Home Automation system
Design of RISC-V processor
UPC Barcode Decoder

Achievements

- Merit-based scholarship recipient (PAKTURK International)
- Certificate of Recognition, for System-Verilog for Verification workshop organized by RISC lab and IEEE, SEECS
- Appreciation letter and shield award from president Youth Insight
- Volunteer at Helping Hands USA
- Ambassador at WWF-PAKISTAN
- Team Member HR at Youth Insight (2019-2020)
- Team Member HR at Nust Archery Club (2019-2020)

Extra Curricular Activities

Table Tennis, Esports



Abdur Rafay

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Career Objectives
I am a passionate and innovative young professional, who has undying thirst for technical knowledge and constantly involved in developing my skills. A reliable team member with an amiable personality and positive communication style. Having worked on various university level projects, I have been accustomed to working in a challenging and fast paced environment, particularly when dealing with multiple projects and priorities at the same time. I deliver, rest assured!

→ EDUCATION

2021	EE	SEECS, NUST
2017	Alevels	Roots Millennium College
2015	O'levels	Cadet College Hasanabdal

→ WORK EXPERIENCE

1/9/20	25/9/20	WWF
Team Lead - Digital Advocacy Campaign		

15/6/20	30/5/21	IOT Lab SEECS, NUST
Worked on developing a network of IOT devices capable of recording Human Vital Signs (HR, Spo2, ECG, Temp, BP), and integrating them with an Edge Device; data processing and performing local decision making.		

→ PROFESSIONAL & TECHNICAL SKILLS

- Creativity	- C/C++, Python, MATLAB, LabVIEW
- Team Work	- Embedded Systems
- Problem Solving	- Machine Learning
- Work Ethic	- Microsoft Office

→ ACADEMIC PROJECTS

- Remote Health Monitoring System (FYP)
- Smart Home Security System (ESP32)
- Wireless Notice Board (Arduino)
- Synchronous Data Transmission (Logic Circuits)

Sarwa Jalees

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Career Objectives

Final year student looking for a secure position where I can apply my engineering experiences to support the growth of the company.

EDUCATION

2021 Bachelors in National University of Sciences and Technology

2017 A Levels Pakistan School Muscat

2015 O Levels Pakistan School Muscat

WORK EXPERIENCE

01-09-2021 01-01-2022 Syed Al-Mahrooqi Consultancy

Improving the AutoCad drawings for the electrical plan of houses and commercial buildings.

01-06-2019 30-6-2019 Starslight LLC

Learned how to do marketing to sell different commercial lightings on large scale projects.

PROFESSIONAL & TECHNICAL SKILLS

Software AutoCAD, MATLAB, Proteus, Visual Studio and Piece Pice

Languages C,C++, Python, Assembly Programming and High Level

Hardware All types of electrical circuits and microcontrollers

Personal Patience, Adaptability, Time Management and Creativity

ACADEMIC PROJECTS

Stress Detection using Facial Recognition
Heart Rate Estimation in Python
Voice-controlled Car using ATmega16A
Tic Tac Toe (3x3) (With Digital Logic Design)



Achievements

-Merit Scholarship Holder O-Levels
-Merit Scholarship Holder A-Levels
-Inter-School Basketball Gold Medalist 2015 and 2016
-Inter-house Netball Gold Medalist 2016
-Inter-house Basketball Gold Medalist 2017

Community Involvement

-Volunteered in Collection and Donation of clothes and toys for kids (6-12 years) in orphanage
-Volunteer for clothes collection for donation for Street Store by Chadar 2018
-Arranged Street Store with Chadar 2019 as a member

Extra Curricular Activities

-Badminton (Sports)
-Basketball (Sports)
-Table Tennis (Sports)
-Student Government
-Exploring Cities
-Foreign Languages (German and Arabic)

Sikandar Bakht

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Career Objectives

I am an Electrical Engineer from SEECS, NUST, Class of 2021. I am interested in Embedded Systems, Deep Learning and Control Systems. I am a dedicated individual looking for industry experience while possibly providing a fresh insight towards solving problems. I like challenges and solving problems. I am adaptable, willing to learn and constantly on the look out for opportunities to self improve.

EDUCATION

2021 BS EE SEECS, NUST (CGPA: 3.22/4.0)

2017 F. Sc Punjab College of Science, Blue Area, Islamabad

2015 Matric SLS High School, G-11/4, Islamabad

WORK EXPERIENCE

Aug, 2020 Present Research Assistant at ROMI Lab, SEECS

Research Assistant at Robotics and Machine Intelligence Lab at SEECS, NUST. Currently doing my Final Year Project on Smart Network Security

Jul, 2019 Oct, 2019 Intern at RISC Lab, SEECS

Research Intern at RISC Lab, SEECS. Completed projects on FPGA related to hardware developments and implementation of an ISA.

PROFESSIONAL & TECHNICAL SKILLS

Embedded Systems Embedded C/C++ for ARM and AVR Microprocessors

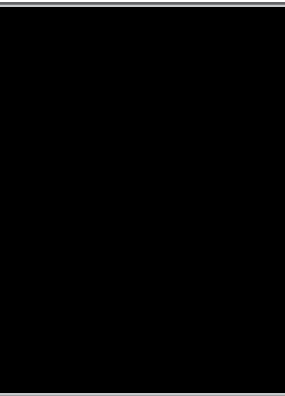
Embedded Systems Verilog HDL - Intel Quartus

Machine Learning ML and DL with libraries such as Pytorch and Scikit-Learn

Industrial Control PLC and SCADA

ACADEMIC PROJECTS

- Sponge examples to detect evasive intelligent malicious software.
- RTOS based Fire Alarm System (ARM Cortex M4)
- Implementation of MNIST classifying CNN on memory scant microcontroller (ARM Cortex M4)
- Plant Pathological Classification using Deep Learning and Pytorch



Achievements

PGC 100% merit scholarship
High Achiever scholarship in SLS.

Community Involvement

- Chaddar Initiative for Orphans.

Extra Curricular Activities

- Charity works with Al Khidmat Foundation and Chaddar Initiative.



Zarlish Ashfaq

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Career Objectives

I am a passionate, driven, and results-oriented individual always on the outlook for new professional experiences. My aim is to learn, grow and innovate.



EDUCATION

2021	EE	National University of Sciences and Technology, Pakistan
2017	FSC	Pakistan School and College Salmiya, Kuwait
2015	Matric	Pakistan School and College Salmiya, Kuwait



WORK EXPERIENCE

Aug 2020	Present	IoT Lab SEECS, NUST
Working on developing an IoT and AI based remote health monitoring system. Main responsibilities include developing a wireless sensor network capable of sensing human vitals and connecting them to the cloud through an edge device.		
Jun 2018	Aug 2018	Gulf Engineering Consultants, Kuwait
Mentored for three months on the responsibilities of a senior electrical engineer in a large project like the development of a hospital.		



PROFESSIONAL & TECHNICAL SKILLS

Programming	Proficient in MATLAB, C/C++, Python
AI/ML	High knowledge of Pytorch, Keras and TensorFlow
Embedded Systems	Experience in developing hardware systems
Problem Solving	A good grip on problem solving and critical thinking



ACADEMIC PROJECTS

- Remote Health Monitoring based on IoT and AI: Final Year Project
- Self-Balancing Robot: Implemented using ATmega16 and C++
- Wireless Notice Board: Implemented using Arduino, an LCD module and C++
- Restaurant Management System: Implemented with OOP in C++

Achievements

Co-author of a submitted review paper for Springer IoT Journal titled "AI-Enabled Internet of Medical Devices for Smart Healthcare - A Comprehensive Review"

Community Involvement

- Internship at WWF where I led a team for a digital advocacy campaign about plastic pollution.
- A-levels tutoring at Abwab Institute Salmiya, Kuwait.
- Worked on a project with Chadar where we collected winter clothes for the underprivileged.

Extra Curricular Activities

- Executive Admin Events, NUST Science Society
- Director Outgoing Global Volunteer, AIESEC
- Played in NUST's women basketball team.
- Took a German language course (A1)



AZHAN NAQEEB

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Career Objectives

Dedicated individual with verse knowledge in the field of electrical engineering. Currently looking for an engineering position in a fast-paced organization where excellence in relevant. Coming with ability to create designs and implement the procedures while maintaining the company's reputation and adhering to legal rules guiding it.



EDUCATION

2021	BEE, 3.53	SEECS, NUST H-12, Islamabad
2017	HSSC,94%	Punjab College of Science, Faisalabad
2015	SSC,95%	Laboratory High School, Faisalabad



WORK EXPERIENCE

JUNE' 19	JULY '19	PTCL
Internship at Optical Fiber System Terminal (Transport Department). Acquired the requisite knowledge about the Huawei and ZTE SDH Systems		
April '19	Present	Freelancing
I have been doing projects related to programming (MATLAB most common) and trying to work intimately with customers to gather prerequisites and guarantee quality		



PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, MATLAB, Python, Assembly Language
Dev. Tools	Modelsim, Proteus, PSpice, Logisim, OpenCV, Simulink
Hardware	Arduino, STM32, AVR, Node MCU
Soft Skills	Problem Solving, Time Management, Team Work, Ethics



ACADEMIC PROJECTS

- Point of Care Electrochemical Sensor for Typhoid Using Portable Potentiostat To calculate the resistance with image process using c++ with OpenCV
- A smart parking system using NODE MCU and Arduino
- RISC-V Implementation on Logisim
- Campus Model on AutoCad

Achievements

Top 10 in Board FSc. BISE Faisalabad

Top 20 in Board Matric BISE Faisalabad

Community Involvement

- Community Service intern at Akhuwat Foundation.
- Part of Insaniyat Project

Extra Curricular Activities

- NUST Media Club
- Cricket
- Football
- Table Tennis
- E-Games

AZKA AZHAR

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Career Objectives

I am an ambitious individual looking forward to play my part in the society using the skills I have gained. I have developed an excellent eye for detail, am able to work under pressure and have developed management and communication skills. I also hope to continuously improve myself by learning and implementation and hope to secure a career opportunity to fully utilize my skills.



EDUCATION

2021	BEE	NUST, SEECS
2017	FSc.	Punjab College for Women (Pre-Engineering)
2015	O Levels	EMS High School



WORK EXPERIENCE

10-06-19 19-07-19 Rohde and Schwarz, Islamabad

Testing and Measurement Department Intern
Elaborate insight was received on EMI Debugging and practical implementation using Oscilloscope and an understanding of Technical Sales and Marketing

07-10-20 Present CDR Consultants

Technical Writer
Writing of Competency Demonstration Report which includes Career Episodes and Summary Statement for Engineers Immigrating to Australia.



PROFESSIONAL & TECHNICAL SKILLS

Technical Skill	AutoCAD- Circuit Analysis and Design- MATLAB- Simulink
Technical Skill	LabVIEW- MultiSim- Proteus- ADS- PSpice- Octave
Soft Skill	Analytical & Organizational Skills- Team Work- Leadership
Soft Skill	Communication & Interpersonal Skills- Critical Thinking



ACADEMIC PROJECTS

FYP- Portable Ventilator for Mechanical Ventilation
Hurdle Detecting Voice Controlled Car using ATmega16A
Tank Level Control using PID Controller in LabVIEW and MATLAB
Water Level Indicator with Motor Controller

Achievements

- Silver and Gold Table Tennis SEECS Sports Gala 2019
- First Position SDPI Essay 2013
- Certificates Debating 2010-14
- Parliamentary Debate Runner-up

Community Involvement

- Ambassador SDGs Youth Squad for Progressive Pakistan 13-10-19 to 15-02-20 (SDG 2 was targeted)
- Active Member Healing Hearts Society
- Active Participation in Funds Collection and Donation for SOS Children's Village

Extra Curricular Activities

- Chairperson IEEE-SEECS WIE AG
- Campus Ambassador - IEEE WIE ILS 2019
- Deputy Director Admin Coordination NUST Student Forum (NSF)
- Member Team Admin Events HONET ICT 2018
- Orientation Leader SEECS 2018 and 2019
- Member Management SEECS Convocation 2019



MUHAMMAD AMIR

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Career Objectives

Focused on Power Energy Systems and IoT. Experienced with MATLAB and Proteus simulations of power systems. Looking to secure a supervisor position in a Solar Panel company with focus on Smart grids which allows me to fully utilize my skills while working for the success of the company and making the society better



EDUCATION

Year	BEE, 2.93	NUST, SEECS, Islamabad
Year	FSc, 90%	Punjab group of colleges
Year	Matric, 95%	Jinnah International Public School



WORK EXPERIENCE

10Jul 19 23Aug 19 GEPCO, Gujranwala

Learning the repairing of transformer in transformer repairing workshop and learning to take readings and finding faults in meters in meter testing lab

16July 18 28Aug 18 GEPCO, Gujranwala

Learning the working of 132 kV Grid station and its components



PROFESSIONAL & TECHNICAL SKILLS

Software	PSice, MATLAB, Simulink, Proteus, AutoCad, Visual Studio
Hardware	NodeMCU, Atmega 16
Graphic Designing	Adobe Illustrator, Photoshop, After Effects
Soft Skills	Interpersonal, leadership, problem-solving, decision-making



ACADEMIC PROJECTS

IoT based Home Solar Power System using ML/Deep Learning
NodeMCU based Automated home security system
4-digit combination lock system using DLD circuits.
FM radio transmitter

Achievements

- 100% scholarship in 2 years of FSC at Punjab college.
- 100% scholarship during Metric in Jinnah International Public School

Rising Talent on Upwork

Community Involvement

- Community service intern at Akhuwat Foundation
- Seecs Horticulture Club
- Organized clothes collection camps

Extra Curricular Activities

- Freelancer at Upwork: Logo designing
- Competitive Player in Fortnite
- Anime and Comics



FAIZAN AHMAD

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Career Objectives

I am an aspiring electrical engineering student looking forward to join a professional environment. The robust combination of the knowledge of both the hardware and software fields enables me as an engineer to solve problems and perform tasks in a unique and an efficient way. My areas of interest are Embedded Systems and Programming, Networks, Blockchain and Web and Desktop Applications Development.

EDUCATION

- 2021 B.E. EE SEECS, NUST H12, Islamabad
- 2017 FSc. Engg FG Sir Syed College, The Mall, Rawalpindi
- 2015 Matric CS Fazaia Inter College Nur Khan, Rawalpindi

WORK EXPERIENCE

June '19 Aug '19 RISC Lab, SEECS
Development and Implementation of RISCv 32-bit micro-processor using Verilog HDL

Jan '18 Present Freelancing
AutoCAD designing, Problem solving using MATLAB and programming
Website development and customization
Wordpress plugin and theme development and customization

PROFESSIONAL & TECHNICAL SKILLS

- Hardware Design Verilog, AutoCAD, MATLAB, ARM&AVR Assembly & C
- Web Development React, Node, Gulp, LAMP stack, Shopify, Wordpress dev.
- Desktop C/C++, Python, Qt, Git, Hardware simulation & design tools
- Soft Skills Problem Solver, Team Worker, Attention to Detail

ACADEMIC PROJECTS

Blockchain based secure electronic voting system
NodeMCU based Whatsapp weather forecast chatbot
Graphical doodle search using machine learning
Graphical TicTacToe implementation on ARM Cortex M3
Multiplayer chess game with GUI, Inventory management system + Invoicing

Achievements

2016 Excellence Award
2008-2015 Excellence Scholarship
2010 Chief of Air Staff Gold Medal

Community Involvement

NUST TYC Chadar Project
Akhwat Internship
Bring a Smile Project

Extra Curricular Activities

Director Web & IT / Publishing,
Executive Publishing and
Executive Event Management in
various clubs

Member Organizing Committee NUST
Summer School, SEECS Open
House and Pakistan human flag

Table Tennis, Cricket, Horse Riding
PUBG



M. MUGHAL

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Career Objectives

I am aspiring 4th year electrical engineering student looking to join a professional Industrial environment. I like and pursued electrical engineering because i believe it to be the bridge between software and hardware that enables it to do tasks that otherwise would have been impossible. I love working in teams and making new acquaintances to grow together and as a result, make things that far exceeds individual capability.

EDUCATION

- 2021 PM Diploma PDC (Professional Development Centre)
- 2021 BS. EE NUST(National University of Sciences and Technology)
- 2017 F.Sc. Superior College Sargodha

WORK EXPERIENCE

6/2019 8/2019 RISC Lab, SEECS
Made Soft RISCv32I core there

- - Freelancing
Made PCBs on EagleCAD as freelancer

PROFESSIONAL & TECHNICAL SKILLS

- Soft Specific
- Problem solver C/C++/Embedded C
- Fast learner Verilog/SystemVerilog
- Team worker AutoCAD/SolidWorks

ACADEMIC PROJECTS

3D printer(With online monitoring system)
Frequency controlled car using RTOS and DSP
GSM GPRS Detector and Collision Detector
IR controlled Infinity Mirror clock
...

Achievements

Full Scholarship 2015
Full Scholarship 2016
GPA based Scholarship 2018

Community Involvement

Participated in Chadar Project

Extra Curricular Activities

Table Tennis
Badminton
Football
PUBG
Dota



Muhammad Obaid Ur Rahman

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Career Objectives
Secure a responsible career opportunity to fully utilize and connect my skills and education to the current job landscape, while making a significant contribution to society.

→ EDUCATION

2021	BEE	NUST
2017	A levels	Roots Flagship Campus DHA1, Islamabad
2015	O Levels	BeaconHouse School System Abbottabad

→ WORK EXPERIENCE

01-8-2016	30-8-2016	NERA
Understanding the workings of Antenna Signal Transmission and Field trips to PTCL exchanges.		
15-9-2020	15-4-2021	ROMI Lab, SEECS, NUST
Working on a Low cost smart robotic grasper trained using a CNN.		

→ PROFESSIONAL & TECHNICAL SKILLS

Technical	ROS (Robot Operating System).
Technical	Microsoft Excel, Word and PowerPoint.
Technical	Python.
Technical	Deep Learning.

→ ACADEMIC PROJECTS

- 1)Water Level Detection and Automatic Water tank filling using Arm Cortex M3.
- 2)Evil Hangman, using C++.
- 3)Game Of Life, using C.
- 4)Home Security System, using Logic Gates.
- 5)Soil Monitoring, using Node MCU and Arduino.

Achievements

- Academic Scholarship 2012.
- Full Academic Scholarship 2015-2016.
- Full Academic Scholarship 2016-2017.

Community Involvement

- Akhuwat Foundation Internship in 2018.

Extra Curricular Activities

- DOTA 2.
- Table Tennis.
- Badminton.
- Reading Books and Watching Documentaries.
- Anime.



Salman Nasir

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Career Objectives
I am a highly driven, dedicated individual and a motivated team player who is looking forward to utilising my fresh knowledge, analytical thinking and communication skills and secure a challenging position in a reputable organisation.

→ EDUCATION

2021	BEE	National University of Sciences and Technology
2016	A-Levels	Bloomfield Hall School
2014	O-Levels	Bloomfield Hall School

→ WORK EXPERIENCE

5-10-2020	30-4-2021	ROMI, Lab, SEECS, NUST
Lead intern/Utilising ROS programming and deep learning concepts and developing a robotic arm grasper/Robot EV3 kits		
5-10-19	15-12-19	RISC-V Lab, SEECS, NUST
Introduction and coding in Verilog HDL(Altera for Intel FPGAs)		

→ PROFESSIONAL & TECHNICAL SKILLS

Electronics, Controls	Pspice, MultiSim, Proteus,ADS,Matlab,Labview
Embedded,Robotics	Quartus,LogiSim,ModelSIM,VHDL,ROS,Python
Networking,Stats	Wireshark,eNSP,Minitab,SPSS,MSOFFICE
Communication skills: Teamwork,Adaptability,Problem-solving,Willingness to learn	

→ ACADEMIC PROJECTS

- Low Cost Robotic Grasper, Resistor Value Decoding through Images, Smart Agricultural Monitoring System, Car Parking Management System, Smartphone Operated RC Car

Sardar Hassan Arfan Khan

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Career Objectives

I want to work with extraordinary people and use my skills to be a part of something revolutionary and want to be help bring change in the lives of people.



EDUCATION

2021 BEE SEECS, NUST H12 Campus (CGPA: 3.69)

2017 A Levels Beaconhouse Margalla Islamabad (Result: 4A*)

2015 O-Levels Beaconhouse F11 Campus Islamabad (Result: 5A* 4As)



WORK EXPERIENCE

Jul 2020 Oct 2020 Adaptive Signals, Lab SEECS, NUST

Created a custom Neural Network along with using transfer learning to test ResNet-18, AlexNet, GoogLeNet, and SqueezeNet for problems is agriculture. Also made use of transform domain techniques and data augmentation.

Jul 2020 Sep 2020 PTCL Islmabad

Worked on a program in Python to monitor trends on social media by extracting, preprocessing, grouping & analyzing sentiments & complaints from posts; analyzed using Gensim LDA. Categorized findings were stored in a CSV file.



PROFESSIONAL & TECHNICAL SKILLS

AI/ML High Knowledge of Pytorch, TensorFlow, and Keras

Programming Proficient in C/C++, MATLAB, and Python. High understanding of data structures and algorithms.

Project and Team Management Have led 4 different project teams and worked on 6 projec

Communication Skills Expert communiction skills



ACADEMIC PROJECTS

BioRadar: Used a 60 GHz radar for contactless vital sign monitoring.

Portable ECG Monitor: Created a portable ECG device capable of measuring Heart Rate and Heart Rate Variability with >90% accuracy.

Biometric Attendance Marking System with ARM M4.

Banking Management System: Created a GUI with full backend functionality.



Urwa tul wusqa

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Career Objectives

Secure a responsible career opportunity to fully utilize my training and skills, while making a significant contribution to the success of the company



EDUCATION

2021 BEE NUST-SEECS

2017 Alevels Bloomfield Hall Upper School

2015 O levels Sadiq Public School



WORK EXPERIENCE

2018 2018 Akhuwat foundation

Brief summary of key responsibilities - work / research experience

2020 - Freelancer on fiverr

Work as a statistical analyst



PROFESSIONAL & TECHNICAL SKILLS

Embedded systems Verilog, FreeRTOS

Comp Programming Object Oriented Programing (C++), Arduino,Matlab

Electrical Lab View, Proteus, LogicWorks, Multisim, LTSpice

Microcontrollers AVR, Arduino, NodeMCU



ACADEMIC PROJECTS

FYP: Water metering in residential sector

Smart Car Parking System

Mobile Phone Detector

Water Level Management System

Valet Parking system

Sudoku solver

Snake game

Tic Tac Toe

Achievements

Gold Medalist Beaconhouse Northern region for both O & A levels.

Received 100% merit scholarship for 2 years in A-Levels.

Community Involvement

Bazeecha Trust: Worked to raise awareness to support primary education of underprivileged children.

Blood Donation: Have donated blood to patients.

Extra Curricular Activities

Director Media, NUST Debating Society: Led a team of 4 to provide media coverage of multiple events.

Logistics, NUST Fine Arts Club: Ordered and installed advertisement and decor equipment for three major events.

Travelling: Organised a trek for 30 people to Muzaffarabad and Pir Chanasi in Kashmir.

Achievements

Maintained a 100% client satisfaction on Fiverr

Levelone seller on Fiverr

Community Involvement

Insaniyat project

Worked at akhuwat foundation

Extra Curricular Activities

- NUST DEBATING SOCIETY team admin events (worked in 2 events)
- NUST BAZM E PAKISTAN team admin events (OC member of 4 events)
- NUST TECHNICAL AMUSEMENT CLUB team protocol (OC member 4 events)
- NUST BIOREACH SOCIETY team admin events
- NUST DEBATING SOCIETY team admin events



Danyal Saqib

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Career Objectives
NUST SEECS Electrical Engineering student, class of 2021. My core interests are Embedded Systems, Deep Learning, Control Theory, and DSP. I am also a Mathematics and Physics enthusiast.

→ EDUCATION

- 2021 Electrical En SEECS, NUST (CGPA: 3.55/4.0)
- 2017 A Levels Roots School System, DHA-1, Islamabad
- 2015 O Levels The City School, Cantt Senior Branch, Rawalpindi

→ WORK EXPERIENCE

- Aug, 2020 Present Research Assistant at ROMI Lab, SEECS
- Research Assistant at Robotics and Machine Intelligence Lab at SEECS, NUST. Currently doing my Final Year Project in the domain of Self-Supervised Robotics.
- Jul, 2020 Oct, 2020 Deep Learning Intern at ASP Lab, SEECS
- Research Intern at Advanced Signal Processing Lab at SEECS, NUST. Projects done in Deep Learning and Computer Vision.

→ PROFESSIONAL & TECHNICAL SKILLS

- Embedded Systems Embedded C/C++ for ARM and AVR Microprocessors
- Embedded Systems Verilog HDL - Intel Quartus
- Machine Learning ML and DL with libraries such as Pytorch and Scikit-Learn
- Quantum Computing Quantum Programming and Algorithms with Qiskit

→ ACADEMIC PROJECTS

- Scalable Self-Supervised Learning for Robotic Grasping
- RTOS based Night Time Traffic Light Controller (ARM Cortex M4)
- Systematic Comparison of Neural Network Architectures
- Plant Pathological Classification using Deep Learning and Pytorch

Achievements

- NUST High Achievers Scholarship (May 2019, January 2020)
- Roots Merit Scholarship, 2017
- LGES Scholarship, 2012

Community Involvement

- SEECS Horticulture Society

Extra Curricular Activities

- Nust Literary Circle (Graphics Designer)
- IEEE, SEECS Chapter (Logistics and Graphics)
- HONET-ICT (Graphics Designer)
- SEECS Government Association (Graphics Designer)



Gul E Zahra

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Career Objectives
To work for an organization which provides me the opportunity to employ my skills and knowledge and also contribute in the success and growth of the organization

→ EDUCATION

- 2021 Electrical Engineering (NUST)
- 2017 Alevels Roots Ivy School System
- 2015 Olevels Beaconhouse School System

→ WORK EXPERIENCE

- Aug'15 to Sep'15 USAID Small Grants and Ambassadors Fund Program
- Worked as an intern under the supervision of HR director -wrote a report highlighting the details of a case study

→ PROFESSIONAL & TECHNICAL SKILLS

- Auto CAD MATLAB NI Labview
- ADS software Visual Studio PSPICE
- Atmel Studio Proteus Assembly Language
- Verilog C, C++ Xilinx

→ ACADEMIC PROJECTS

- FINAL YEAR PROJECT- RF energy harvesting device (ongoing)
- Multiple DC Motor controller using ATmega-16(2019)
- simple airplane model(2018) Tug of war game(hardware) (2018)
- 3D Model of NUST using AutoCad(2017) Evil Hangman Game in C++ (2018)
- TicTacToe in C (2017) Student Directory in C++(2018)

Achievements

- 1. Awarded with best academic performance during primary and secondary school years
- 2. Received academic based scholarship during O and Alevels
- 3. Gold medal in Olevels(5A*s,3A's)
- 4. Gold medal in Alevels (1A*,2A's)
- 5. Singer of the year award(2008)

Community Involvement

- INSANIYAT project-2017
- collected donations for children of Pakistan Sweet Homes

Extra Curricular Activities

- 1. Served as the student counselor in Olevels (2014 – 2015)
- 2. Served as the Music Club President (2011 – 2012)
- 3. Served as the Music Club General Secretary (2009 – 2010)
- 4. Participated in Urdu and English Debate Competitions in primary and secondary school years



Jannat Ayyaz

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Career Objectives
To pursue a challenging career and be a part of progressive organization that gives a scope to enhance my knowledge and utilize my skills towards my growth. I am confident withmy abilities to come up with interesting ideas to accomplish my tasks and goals.

→ EDUCATION

2021 Bachelors in National University of Science and Technology
2017 FSc. Engg Hamza Army Public College
2015 Matriculation Siddeeq Public School

→ WORK EXPERIENCE

Sept 2020 Oct 2020 Attock Oil Refinery

This internship included study and on site visits of all the sections of refinery. These section includes: Heavy Crude Unit, Reformer unit, DHDS Plant, Sulphur Recovery Plant, Isomerization Plant, Power Plant, Sub Station and Grid Stations

Oct 2019 Sep 2019 Pakistan Engineering Services

Power Distribution System & Grid Station Mechanism study. Sub-station and Hydro-power plants Mechanism Study. Study of all the bidding documents of all hydro projects and Power Generation plants

→ PROFESSIONAL & TECHNICAL SKILLS

Languages	C/C++/Python Programming
Design Software	MATLAB, LabVIEW, PSPice, Multisim, Proteus, AutoCAD
Computer Software	Visual Studio, Keras, Tensorflow, Anaconda
Microsoft Office	Word, Excel, Powerpoint

→ ACADEMIC PROJECTS

Tug of War Game, Restaurant Management System, Frequency Sensitive LEDs, Huffman encoding, Sudoku, Temperature & Humidity Monitoring & Control system, NN Classifier for CIFAR-10, Projects in LabVIEW/ C/C++/Java/Python, Stress monitoring and Detection through facial Recognition

Achievements

Language - German A1
Language - German A2
Language - French A1

Community Involvement

-Volunteer Internship with Akhuwat Foundation
-Project Insaniyat-Chadar

Extra Curricular Activities

-AD Liaison Nust Media Club,
-Team Stage Management NDC,
-Team Protocol FICS'20,
-SEECS Open House Team
-Security, Participant Bestival'18,
-Organizing Committee of Dramafest,
-Team Marketing Dramafest,
-OC SEECS Orientation,
-Director Admin Events Global village,
-Sketching,
-Travelling



Momin Ahmad Khan

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Career Objectives
A final year Bachelors of Electrical Engineering student at SEECS, NUST with a core interest in Embedded Systems, Computer Vision, Image Processing and Deep Learning.

→ EDUCATION

2021 BEE, 3.98 SEECS, NUST H-12, Islamabad
2017 HSSC, 92% Punjab College of Science, Blue Area, Islamabad
2015 SSC, 91% EMS High School, H-11/4, Islamabad

→ WORK EXPERIENCE

June 2019 Present SIGMA Lab, SEECS, NUST

• Development of Whole Slide Imaging Scanner.
• Worked on Image Processing, Deep Learning, Electronics, Computer Vision.
• Mentored the Interns for Summer 2020.

April 2019 April 2020 SEECS, NUST

Teaching Assistant for the course "Digital Logic Design", under the supervision of Assistant Professor Arshad Nazir.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, MATLAB, Python, Assembly
ML/DL	PyTorch, TensorRT, OpenCV
Hardware	Arduino, NVIDIA Jetson, STM32, AVR
Software	PSPice, Proteus, Quartus, Atollic

→ ACADEMIC PROJECTS

• Whole Slide Imaging (WSI) Scanner with Deep Learning Applications.
• Deep Learning Inference Acceleration using TensorRT on NVIDIA Jetson.
• Implementation of RISCv Core using Verilog.
• Plant Pathology Kaggle Competition using Transfer Learning.
• Smartphone Controlled Car using ARM Cortex M4 based STM32 MCU.

Achievements

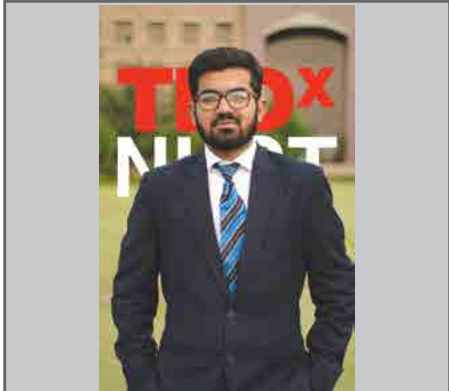
• NUST Merit Scholarship for top 100 in Entry Test.
• NUST Merit Scholarship for every Semester GPA.
• Top 25 NPTC 2016-17.
• 1st position in GIKI Entry Test.
• 1st position in PIEAS Entry Test.
• 2nd position ISMO 2012.
• 3rd position ISMO 2011.

Community Involvement

• Community Service intern at Akhuwat Foundation.
• Organized clothes collection camps.
• SEECS Horticulture Club

Extra Curricular Activities

• Table Tennis
• Dota2
• Gardening
• Reading



Abdul Mohamin Hashmi

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Career Objectives

A student of Electrical Engineer from NUST. Quite well efficient in Interpersonal skills, managing and handling teams, work ethics, also into lab works and project design and research. Very much enjoys programming, logic design, circuits and AI. My objective is to work in an exciting and professional environment of an organization with personal development and growth possibilities and to achieve the targets assigned up to the best of my level

→ EDUCATION

2021	Electrical	Engineering (NUST) CGPA-2.73
2016	HSSC	Nishat College Of Science
2014	SSC	Nishat School Of Science

→ WORK EXPERIENCE

June,19	March,20	NUST SEECS
I have worked as TA under Prof. Habeel Ahmed for an advance electronics course in NUST university. I have helped him in his assignments marking and lab work. In lab I had to teach the kids about equipments available in lab and ho		
Aug,18	Oct,19	AKHUWAT
Akhuwat was my first professional environment in which I worked for a month. Here I used to keep track of instalment people pay for the interest free loan provided them for their business and keep a check on them		

→ PROFESSIONAL & TECHNICAL SKILLS

Autocad	MATLAB	Labview
ADS Software	Visual Studio	PSPICE
Atmel Studio	C, C++	Assembly language
Verilog	Proteus	Xilinx

→ ACADEMIC PROJECTS

FINAL YEAR PROJECT: Self Supervised Robotic Arm		
ultiple DC Motor controller using ATmega-16(2019)	Tug of war game(hardware) (2018)	
simple airplane model(2018)	Hostel Management in C++ (2018)	
3D Model of NUST using AutoCad(2017)	Home Automation System (2019)	
CMS setup in C (2017)		



Muhammad Talha Bhatti

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Career Objectives

To integrate my knowledge in various domains of electrical engineering and computer science, improve and expand upon my skill-sets, get hands-on experience and exposure in industry.

→ EDUCATION

2021	BEE	National University of Sciences and Technology (NUST)
2017	F.Sc.	Punjab Group of Colleges
2014	Matric	New Science Foundation High School

→ WORK EXPERIENCE

July 2018	Aug 2018	Akhuwat
Community service, distribution of loans and funds.		
Oct 2020	Present	IPT Lab, SEECS
Research projects related to LoRaWANs technology.		

→ PROFESSIONAL & TECHNICAL SKILLS

Hardware	Arduino Uno, Atmel AVR, ARM Cortex M4, LoRa
Software	MATLAB, LabVIEW, AutoCAD, eNSP, MS Office
Programming	C, C++, Python, Assembly, Tensorflow, Keras
Soft Skills	Interpersonal, leadership, problem-solving, decision-making

→ ACADEMIC PROJECTS

Water level detection using FreeRTOS, Controller design for step response of airplane roll-angle, IoT based health monitoring system using NodeMCU ESP8266 Wi-Fi module, Micro-controller based image classification using artificial neural network, 16-bit bare-bones door lock system, Text file compression using Huffman coding, DTMF based home automation.

Musa Jabbar Taib

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Career Objectives

I like to work in an environment that enables me to use my strong organizational skills, educational background as an Electrical Engineer, and ability to collaborate well with people, to their full extent, in a manner that is both productive and fun

→ EDUCATION

2021 BSElectrical SEECS, National University of Sciences and Technology.

2021 Minor - BM NBS, National University of Sciences and Technology.

2017 A/O Levels Edwardes College Peshawar.

→ WORK EXPERIENCE

09/2020 Present ROMI LAB, SEECS, NUST

- Working as a Research Assistant at Robotics and Machine Intelligence lab.
- Created RNN architecture GANS that can generate fake UDP and TCP Traffic.
- Made Several different Classifiers to test Gan Traffic.

06/2018 07/2018 Aljomaih and Shell Lubricating Oil Company (JOSLOC)

- Worked as a summer intern in the Oil Blending Plant Department.
- Familiarization of Safety and Fire Alarm system.
- Blending Plant operation and maintenance.

→ PROFESSIONAL & TECHNICAL SKILLS

Technical	Power System (Analysis, Protection, Transmission)
Technical	High level Programming language (Python, C++, MATLAB)
Technical	Machine Learning (Pandas, NumPy, Scikit-Learn)
Technical	Business Studies (Marketing, Finance, Accounting)

→ ACADEMIC PROJECTS

- 5 Stage Pipelined RISC-V Processor on FPGA.
- Bluetooth controlled car using ARM Cortex M4.
- Banking Database System using C++ and Windows Forms.
- Custom Local Area Network in Python.



Nida Haq (Electrical Engineer)

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Career Objectives

I am a hard-working individual with strong intention to work and eager to learn about new technologies and business ideas. I want to succeed in my job career in order to fulfill my personal goals as well as goals of organization. I am able to work well both on my own initiative and as part of a team.

→ EDUCATION

2021 Elect Engr NUST (SEECS) Islamabad

2017 FSC Quality School & College Wah Cantt

2015 Matric Quality School & College Wah Cantt

→ WORK EXPERIENCE

14/09/20 15/10/20 Wah Noble Group Of Companies Wah Cantt

(Internship) I worked on Formaldehyde Chemical Plant, its instrumentation and control, Power systems Protection equipment, safety and maintenance. I also have research and experience about design and working of PV Solar plant.

1/07/20 16/07/20 Microsoft Virtual Internship

I completed practical task modules in Microsoft's organizational values, smart goal setting, corporate culture, personal branding and various communication skills.

→ PROFESSIONAL & TECHNICAL SKILLS

RF&Microwave	Antenna Design (HFSS)
MS Word	Control and power system protection Design
MS Power Point	Matlab
Management	Problem-solving, creativity, planning, persuasion

→ ACADEMIC PROJECTS

RF Energy Harvesting Device (Final Year Project)
Electronic Water Level Detector
Cell Phone Detector
Smart Car Parking Management System



Achievements

- Prime Minister Laptop Award, Higher Education Commission (HEC) May 2019
- Merit Scholarship, Edwardes College 2016 – 2017
- Outstanding Cambridge Learner Award, Cambridge IGCSE Examinations June 2015

Community Involvement

- JUNE 2018 – MID JULY 2018 Summer Volunteer, Mental Health Centre, Peshawar
- SEPT 2018 – JAN 2020 MEMBER, SEECS Horticulture Group, NUST, Islamabad

Extra Curricular Activities

- Dota 2
- Anime
- Table Tennis
- Badminton
- Fortnite
- Halo
- Chess

Achievements

- Awardee of Prime Minister Laptop Scheme Phase IV (2018)
- Merit Scholarship Holder FBISE HSSC result (2017)
- Merit Scholarship Holder FBISE SSC result (2015)

Community Involvement

- Ambassador at FROODS 2020-present
- Summer Intern Akhuwat Foundation 2018, Office Management regarding Micro-finance loans

- Fundraiser Volunteer Project Insaniyat Chaadar Chapter NUST 2017, Collection of Donations, their utilization and other distribution

Extra Curricular Activities

- Executive Publications NUST BioReach Society 2018, Writing blogs, captions and social media marketing content

- Member of Organizing Committee SEECS NUST Food Fest 2018

- Reading books, watching TV shows of cultures across the world, art and crafts, badminton, music, poetry.

NOOR WAQAR

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Career Objectives

The want to learn from the educated and the forerunners, because only a faithful follower can aspire to lead one day, and work for the betterment of the community

EDUCATION

2021 BE-Electrica NUST I Islamabad, Pakistan

2017 A Levels Bahria College Islamabad

2015 O Levels Bahria College Islamabad

WORK EXPERIENCE

Aug 2020 Present Information Processing and Transmission Lab. I NUST

• Comprehending 5G Network Principles. • Incorporating Non Orthogonal Multiple Access (NOMA) in 5G Networks. • Uniting 5G - NOMA and Mobile Edge Computing (MEC) for higher system throughput • Reinforcement Learning

Mar 2019 Aug 2019 Signal Processing and Machine Learning Lab. I NUST

• Using Deep Learning algorithms to analyze anomalies in Microscopic Medical Slides. • Developing multiclassification algorithm for classifying skin cancer in patients. • Identifying anomalies through image segmentation and classification

PROFESSIONAL & TECHNICAL SKILLS

Technical Skills ATMEL Studio, MATLAB, Simulink, AutoCAD

Technical Skills PROTEUS, PSpice, Pytorch/tensorflow/keras

Soft Skills Interpersonal Skills, Leadership & Management, Teamwork

Soft Skills Problem Solving Skills, Work Ethics

ACADEMIC PROJECTS

• Air Pollution Monitor: Designed a low cost prototype of a system to monitor real time air pollution in the atmosphere • Design of FM Transmitter: Conceptualized and designed a low cost, portable FM transmitter device. • Laser Engraver Computer Numerical Control (CNC) Machine. • Real Time Ultrasonic Detection System with GUI

Achievements

- Fauji Foundation Excellence Award – AY 2018, 2019 and 2020. Worth PKR 60,000/annum.
- National Distinction in Economics for GCE A-level, AY 2016-2017.
- Diploma Distinction in Advanced International Certificate of Education (AICE), AY 2015-2016.
- Regional Distinction-Best Across 4

Community Involvement

- World Wildlife Fund
- Orphans kNow More
- Blood Donation Drives
- Fem Power
- Footymania and SOS Olympiad
- Al Qalam Program
- Ration drives

Extra Curricular Activities

- NUST Media Club - Treasurer. Handled transactions worth PKR 2 million
- Organizing Committee Member for Team Finance, NUST Olympiad '19. Handled transactions worth PKR 9 million.
- Organizing Committee Member for Team Finance, Orientation of NUST '18. Handled transactions worth PKR 2 million.
- NUST Community Services Club – Deputy Director of Finance.

SHAHZAIB SAQIB WARRAICH

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Career Objectives

I want to work in a fast, challenging, and dynamic environment that strives me to evolve myself as a professional. I hope to gain useful experience to further my goal of pursuing a career in data science in the finance industry.

EDUCATION

2021 BE (EE) National University of Sciences and Technology, Islamabad

2017 A Levels Aitchison College, Lahore

2015 O Levels Aitchison College, Lahore

WORK EXPERIENCE

May' 20 June' 20 KPMG, Lahore

Achievements:
1) Highest model accuracy of 94%
2) Presented the insights to the customer

July'20 May'21 KBS Lab, SEECS

Final Year Project:
The Epidemic Control Portal

PROFESSIONAL & TECHNICAL SKILLS

EE MATLAB, Simulink, PSpice, Proteus, Multisim, LabVIEW

CS C/C++, Python, Algorithm design.

Data Science Storytelling, Sk Learn, PyTorch, Keras, Pandas, Seaborn

Management Leadership, Team playing, Project management,

ACADEMIC PROJECTS

- 1) U.S. telcos customer churn prediction
- 2) IMDb movie review sentiment analysis
- 3) Airbnb rental price prediction
- 4) Time series analysis of COVID-19
- 5) IoT powered Smart Farming Management System

Achievements

- 1) 2nd Best leaving student (A levels)
- 2) Vice captain college cricket team (A levels)
- 3) World distinction (O level Statistics)

Community Involvement

Chadar:
Street School for underprivileged children in Afghan Abadi, Islamabad.
- Career Counsellor
- Instructor
- Administrator

Extra Curricular Activities

- 1) NIMUN society: Asst. Director (Committees) 2020
- 2) ACMUN society: Committee Director (UNHCR) 2017
- 3) Aitchison College Cricket Team (Vice Captain) 2017



Shanawar Ali Chouhdry

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Career Objectives
To bring ideas into reality with vigorous self analysis of doing valuable work and always moving forward with zeal and commitment.

→ EDUCATION

2021	BEE	SEECs, NUST H12, Islamabad
2017	HSSC	Acme College, Sargodha
2015	SSC	Sanai School System, Sargodha

→ WORK EXPERIENCE

Mar 20	June 20	Home Tution
Teaching Mathematics and English		

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C,C++,MATLAB,Python,Assembly Language
Design Tools	Autocad,Logisim,Proteus,Pspice,Multisim
Hardware	Arduino,Raspberry Pi,Node MCU, PIC, AVR
Soft Skills	Time Management,Problem Solving,Team work,Leadership

→ ACADEMIC PROJECTS

FYP: Detection Of Tuberculosis in X-rays using Machine Learning (ML)
Flight Simulator
Vending Machine
Wireless Slide Changer
Football 2D game

Achievements

Top 100 Merit Position in Nust Entry Test
Full semester waiver scholarship NUST
FBISE Scholarship 4 years
Vice President Nust Cinema Club
Captain Football Team

Community Involvement

Community Service Intern in Akhuwat Foundation

Extra Curricular Activities

Football
Cinema



SHEERAZ AHMED

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Career Objectives
I am senior year student pursuing Bachelors in Electrical Engineering. Developed the required analytical abilities and technical skills for engineering innovative designs and applications.My areas of the interest are Machine learning, Data Science, Embedded Systems and Digital Image Processing.

→ EDUCATION

2021	BEE	SEECs, NUST H12, Islamabad
2016	A levels	SST Public School Rashidabad,Sindh
2014	O levels	SST Public School Rashidabad,Sindh

→ WORK EXPERIENCE

June'20	July'20	PTCL
Internship at PTCL Internet Services office. Acquired the knowledge of the Internet Networks and Internet Services.		

Jan'19 Present Freelancing

I have been doing projects using the programming and Matlab environment to design the systems.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C,C++,MATLAB,Python,Assembly Language
Design Tools	Logisim,Proteus,Pspice,Multisim
Hardware	Arduino,AVR,STM32,Node MCU
Soft Skills	Time Management,Problem Solving,Team work,Leadership

→ ACADEMIC PROJECTS

Point of Care Potentiostat for Typhoid Detection
Smart Parking System using Node MCU and Arduino
Image Classification using Machine Learning
Home Automation using Atmel AVR
Campus Model using AutoCad

Achievements

Meritorious Award by Habib University,Karachi.
Topper Award in School for grades in A levels.
School Prefect

Community Involvement

Community Service Intern in Akhuwat Foundation

Teacher for underprivileged children of rural areas TandoAllahyar

Extra Curricular Activities

School Hockey Team Member
School Dramatics Club Member
School Event Managment team



Syed Haider Ali

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LinkedIn profile <https://www.linkedin.com/in/syed-haider-ali-19a83814b/>

Career Objectives

I am final year Electrical Engineering student at SEecs NUST. My areas of interest are Power Systems, Deep Learning and Communications. I am also doing a Minor in Managment from NBS, Islamabd to get a flavour of the other side of the specturm.

→ EDUCATION

2021	BEE, 3.87	NUST, SEecs, Islamabad
2017	A-Level	Lahore Grammar School, Lahore
2015	O-Level	Lahore Grammar School, Lahore

→ WORK EXPERIENCE

April / 20 Present Information Processing and Transmission (ITP) Lab
-Research regarding LoRaWAN communication technology
-Courses on Deep Learning and Data Science

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Python, MATLAB, HTML
Office	Word, Powerpoint, Excel
Hardware	Arduino, STM32, AVR, ARM Cortex
Software	Pspice, Proteus

→ ACADEMIC PROJECTS

-Efficient Resource Allocation in LoRaWANS
-Online Sopping database system
-Ultrasonic Sensor using ARM Cortex M3
-Air Pollution Monitoring System

Achievements

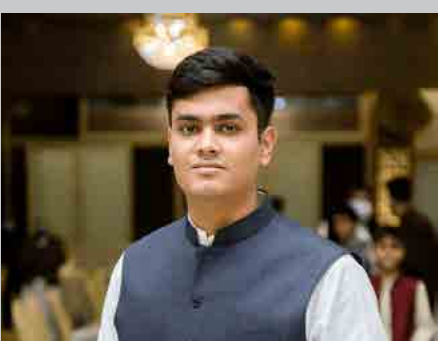
- NUST GPA merit scholarship
- 7th position in batch of 200
- Top in school in A-Levels
- Top in school O-Levels

Community Involvement

- 01/2016 - 05/ 2016: Interned at the Rising Sun Institute for Special Children. I was a Teacher's Assistant for ages 5 to 12. Organized Sports Gala and Donor's Dinner
- 06/2018: Interned at the Clothes Bank, run by transgenders, in Akhuwat Foundation for one month Took part in cloth distribution and collection drives, door-to-door awareness and seminars.

Extra Curricular Activities

- Book Reading
- Badminton
- Cricket



Syed Usama Minhaj

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LinkedIn profile <https://www.linkedin.com/in/usama-minhaj/>

Career Objectives

To be an integral part of a dynamic and progressive organization by utilizing my knowledge and technical skills.

→ EDUCATION

2021	BEE	SEecs, NUST H-12, Islamabad.
2017	F.Sc.	Adam Jee. Govt. Science College
2015	Matric	Suffah Savior School

→ WORK EXPERIENCE

Aug 2020 Sep 2020 Turkish Aerospace Industry
Worked in System Integration Lab in Turkish Aerospace Industry's headquarter in Ankara as Embedded Systems Design Intern.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Python, Assembly, SystemVerilog
Softwares	MATLAB & Simulink, LabVIEW, eNSP, AutoCAD
Hardware	FPGAs, ARM Cortex, Node MCU, AVR, Dragino gateway
Technologies	LoRaWAN, RTOS, PyTorch, Socket Programming

→ ACADEMIC PROJECTS

5-stage pipelined RISC V Architecture on Verilog, IoT based Smart Air Quality Monitoring System, Robotic Arm using Servo Motors and ARM Cortex M-3, Monte Carlo Simulation of LoRaWAN IoT Network on MATLAB. Two Player Chess on C++.

Achievements

- Merit Scholarships for position holders Intermediate Board Karachi
- NUST Merit Scholarship

Community Involvement

- The Citizen Foundation - Mathematics Teacher
- TABA Youth Chapter NUST - Executive Member

Extra Curricular Activities

- Book reading
- Chess
- E-gaming

TALHA NASIR

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Career Objectives

I want to broaden my skill set and use my organizational and technical skills to help others and solve different problems being arised by the latest technology.

EDUCATION

- 2021 B.S - EE SEECS, NUST H-12 Islamabad
- 2017 Intermediate Gov't Degree College for Boys, Sharaqpur Sharif
- 2015 Matriculation Gov't Pilot Secondary School, Sharaqpur Sharif

WORK EXPERIENCE

08/2020 Present RUMI Lab, SEECS, NUST

Studying different network security problems and building a bot that can generate fake traffic and hence can bypass the network security and then, developing an algorithm to counter it.

05/2020 Present ASP Lab, SEECS, NUST

Solving different sorts of deep learning algorithm problems and different sorts of augmentation techniques to assemble data.

PROFESSIONAL & TECHNICAL SKILLS

Communication WireShark, eNSP, RAPL Tool

Embedded Quartus, Atmel, Atollic, Verilog, Assembly Language

Power, Electronics Pspice, ADS, Multisim, Logisim, Power System Analysis

Techniques Python, C/C++, Deep Learning, Tensorflow, Keras

ACADEMIC PROJECTS

- 1 - Neural Network Intrusion Detection System
- 2 - Custom LAN using python
- 3 - Etheruem Blockchain on ubuntu
- 4 - Automated Garage System
- 5 - Car Tracking System using ARM M3

Achievements

Achieving the highest degree for a scout in Pakistan, awarded 100 per year.
Province level basketball champion at school level.

Community Involvement

- 1 - Intern: The Citizen's Foundation: Collecting clothes from different areas and distributing clothes among the poor.
- 2 - Teaching Assistant: Punjab Group of Colleges

Extra Curricular Activities

Coding
Scout
Cricket
Table Tennis
Book Reading



TALHA KAMRAN

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LinkedIn profile <https://www.linkedin.com/in/talha-kamran-5457621a4>

Career Objectives

A talented and enthusiastic electrical engineer who wants to make sustainable and efficient solutions for the world especially using renewable energy and IT. My ultimate goal is to work in industry R&D as I believe, I can make the greatest contribution by utilizing my educational background and creativity as a researcher.

EDUCATION

- 2021 BEE, 3.44 BE Electrical Engineering, SEECS, NUST, Islamabad
- 2017 HSSC,90% Pre-Engineering, Army Public College, Karachi Cantt
- 2015 SSC,94% APSACS, Seven Streams, Quetta Cantt

WORK EXPERIENCE

Sep 2020 Oct 2020 FFBL Power Company Limited, Karachi

- Analyzed the power distribution schematics and layout of the coal power plant (130MW Capacity).
- Learned about the operation and maintenance of the boiler, steam turbines etc

Sep 2020 Present Research Work with FYP Supervisors

Working on a research paper based on my FYP findings. (review paper based on solar forecasting techniques and demand side management)
To be presented at IEEE HONET 2021 Conference

PROFESSIONAL & TECHNICAL SKILLS

CS Machine Learning on Visual Studio Code and TensorFlow

Power Engineering Designing power converter circuits on LT Spice

Control Systems Filters and PID controller design on MATLAB

Embedded Systems AVR assembly & embedded C on Atmel Studio

ACADEMIC PROJECTS

Final Year Project (FYP) - IoT and Machine Learning based Home Solar Power System

1. Reliable UDP File Transfer Program
2. MP3 player using AVR Microcontroller (Atmega16)
3. Smart Smoke Detector circuit
4. Smart Notice Board using Arduino and WiFi Module
5. House Prices Prediction using ML



Zain Amir Zaman

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Career Objectives

Seeking employment in an AI / software development company where I can grow and polish my skills. In the long-term, I aim to lead a team to empower the next generation of engineers to realise their goals.

GitHub profile: <https://github.com/zainamir-98>

→ EDUCATION

2021 B.Electrical National University of Sciences and Technology (CGPA: 3.51)

2017 A Levels Beaconhouse School System Margalla Campus (H-8/4 Isl)

2015 O Levels Beaconhouse School System Margalla Campus (H-8/4 Isl)

→ WORK EXPERIENCE

Jul 2020 Oct 2020 Adaptive Signal Processing Lab (SEECS, NUST)

Research intern: Designed and implemented neural networks using PyTorch to classify fruits from images. Used transfer learning (ResNet-18, AlexNet etc.) to deploy pre-trained models.

Aug 2020 Oct 2020 Pakistan Telecommunication Company Ltd. (Islamabad)

Worked in the Business Intelligence department for 6 weeks. Used Python (Pandas and SciKit) to carry out customer churn prediction with machine learning.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming C, C++, Python

Machine Learning PyTorch, Keras/Tensorflow, SciKit, Pandas

Embedded Systems FreeRTOS, STM32/ARM, AVR, STM32CubeIDE

Signal/Image Proc. MATLAB, Python (SciPy)

→ ACADEMIC PROJECTS

FYP: BioRadar (Contact-Free Vital Signs Monitoring using Millimetre-Wave Radar)

IoT-Based ECG Monitoring for Real-Time Heart Rate Acquisition

Hand Gesture Recognition using a Convolutional Neural Network

Braking Management System using FreeRTOS

Achievements

Acquired funding for final-year project from Swedish radar company Acconeer (worth Rs. 90,000)

Community Involvement

Community service at Shifa Foundation (assisted doctors and nursing staff to treat underprivileged patients)

Extra Curricular Activities

Director Merchandise for the All-National Science Bee (2019)

Deputy Director Graphics (NUST Science Society, 2019-20)



Zain Ishtiaq

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Career Objectives

To secure a worthy position to employ my technical and interpersonal skills to contribute toward the progress of a reputable company.

To work in a professional organizational environment where I can grow my skills and knowledge by meeting the organizational objectives.

→ EDUCATION

2021 BEE NUST, Islamabad

2017 FSC Punjab College of Science, Gujranwala

2015 Matric Sialkot Grammar School, Daska

→ WORK EXPERIENCE

22/6/19 8/8/19 RISC LAB, NUST

- 1) Implementing Single-Cycle-RISC-V architecture on LOGISIM
- 2) Implementing hazard-free fully-pipelined RISC-V Architecture using Verilog HDL on CYCLONE-II FPGA

→ PROFESSIONAL & TECHNICAL SKILLS

Software C, C++, Python, MATLAB, Tensorflow,

hardware ARM, AVR, MIPS, Sytem Verilog, FPGA

Interpersonal Critical and creative thinking, time management

Interpersonal Problem Solving, Teamwork and Adaptability

→ ACADEMIC PROJECTS

Smart Presentation remote controler

Vending Machine using Digital Logic Design

Water level control system using FreeRTOS

TB detection from CXRays using Machine Learning

Achievements

High Achiever in STEP for ECAT 2017 in Pakistan

1st position in straight and relay race in interschool sport programme

Tecaher Assistant for Microprocessor Course, NUST

Community Involvement

Distributing Gifts to Needy and Poor through Akhuwat Foundation and Learning the objectives and working structure of Akhuwat Loans

Contribution in Blood donation camp held in NUST

Extra Curricular Activities

Reading Books for self Improvement
Writing Product Reviews

--Sports
Snooker
Squash
Cricket

Abdullah Nadeem

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Career Objectives

I aim to find a job that enables me to put my technical knowledge to use and be add value to the team i join.

EDUCATION

2021	BS EE	NUST
2017	Alevels	Beacon house School System
2015	Olevels	Beacon house School System

WORK EXPERIENCE

07/2020 11/2020 Arctan Engineering Solutions
Worked on product development .

06/2019 08/2019 SIGMA Lab , SEECS
Worked as a research intern in Machine Learning and Deep Learning.

PROFESSIONAL & TECHNICAL SKILLS

Technical	Deep learning, Digital Marketing
Soft Skills	Effective Communication
Technical	Microsoft Office, Pspice, Matlab
Soft Skills	Management(Human Resources)

ACADEMIC PROJECTS

RTOS based automatic car navigating simulator.
IOT based water level monitoring system.
IOT based heart rate monitoring system.
Edge detection on MATLAB.
Vigenere Cypher.



Achievements

Scholarship Award in A Levels.
Scholarship Award in O Levels.
Selection in top 50 students in NBTC .

Community Involvement

Millennium Fellow at United Nations Academic Impact.
Project Insaniyat with Chadar.
Tree Plantation drive with Roshan homes in Sargodha.
Volunteer at SGD Hackathon by Jazz

Extra Curricular Activities

HR Executive at ACM NUST Student Chapter
Chair HR at ACM NUST Student Chapter
Office Bearer at ACM NUST Student Chapter.
Fellow at Team Up Career Launchpad

Muhammad Abdullah Tariq

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Career Objectives

To obtain a position with a well-established organization in a stable environment that will lead to a lasting relationship in the field of Electrical Engineering. I am looking for a place to use my technical skills, educational background, and abilities to work well with people.

EDUCATION

2021	Bachelors of National University of Science and Technology H-12, Islamabad
2017	Intermediate Islamabad Model College for Boys G-10/4, Islamabad
2015	Matriculation Islamabad Model College for Boys G-10/4, Islamabad

WORK EXPERIENCE

From	To	Organization
Brief summary of key responsibilities - work / research experience		

From	To	Organization
Brief summary of key responsibilities - work / research experience		

PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Matlab, Python language
Softwares	Basic Knowledge of ADS, Labview, Atmel Studio, Quartus (v
Personal	Dilligent, Punctual, Quick to Learn
Interpersonal	Good Communicator, Observant, Team Player, Friendly

ACADEMIC PROJECTS

Bluetooth controlled car.
Heart rate monitoring system.
Laser communication
Chronograph
Audio Feature Extraction and Classification on FPGA with Zigbee Interface



Achievements

Honors, Awards or any other Worth Mentioning Achievements

Community Involvement

Took part in Project Insaniyat. The project was based on string of Food Drives, Donations.

Extra Curricular Activities

Volleyball.
Table Tennis
Book Reading.



Abdullah Bin Iftikhar

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Career Objectives
Creative, talented, and meticulous undergrad with expertise in Digital System Design, Embedded systems, Microcontrollers, and FPGA boards.

→ EDUCATION

2021	BEE	National University of Science and Technology
2017	FSc	Army Public College
2015	Matric	Army Public School

→ WORK EXPERIENCE

Jun '19 Present Real-time Intelligent Secure Computing Research Lab
RISC-V and Machine Learning based projects on Altera FPGA boards

Dec '19 Feb '21 IEEE-SEECS-NUST, Chairperson
Admin coordination, Academic Training and Society collaboration. Technical Event Management

→ PROFESSIONAL & TECHNICAL SKILLS

EE	Altera and Xilinx FPGA boards, AVR Microcontrollers
EE	, RISC-V, ARMM4
EE	C, C++, Verilog/System Verilog, VHDL
Personal	Management, leadership, critical thinking, analytical skills.

→ ACADEMIC PROJECTS

Early Warning and Real-time system for deforestation detection
RISC-V 32-bit ISA. Cross correlation accelerator.
Network intrusion detection and packet header classification
Hardware Software co-design demonstration

Achievements

National Finalist Unilever Talent Hunt.
Finalist FICS 2020.
Runners up project Insaniyat – community service project.
Best Student Branch IEEE Islamabad Section. (under tenure)
3rd position in IEEE R10 Website contest. (under tenure)

Community Involvement

Project Insaiyat.
WWF Internship.
NUST CSL.

Extra Curricular Activities

Chairperson IEEE NUST SEECS Student Branch.
General Secretary NUST Student Forum.



AJWAD FAROOQ

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Career Objectives
A motivated, adaptable and skilled Electrical Engineering Undergraduate who is developing a mature and responsible approach to any tasks undertaken. Experienced in both software and hardware, seeking opportunities to polish technical skills further. And to add value to an organization through sincere efforts and hard work.

→ EDUCATION

2021	BEE	National University Of Sciences and Technology, Islamabad.
2016	FSc	Fazaia Inter College, Munir Road, Lahore.
2014	Matric	Garrison Academy for Boys, Tufail Road, Lahore.

→ WORK EXPERIENCE

June'18 August'18 WWF Eco Internship
- Carrying out research on excess food management by local restaurants.
- Coming up with solutions.
- Presentation of ideas to WWF Management.

July'19 August'19 ASAS Educational Expo
- Team lead of Electrical Engineering team.
- Motivating and guiding youngsters in respective fields.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C/C++, Python, MATLAB, Verilog HDL
Software	Quartus, AutoCAD, Advanced System Design, MultiSim.
Hardware	AVR, Arduino, STM32, FPGA.
Soft skills	Teamwork, Communication, Leadership.

→ ACADEMIC PROJECTS

- Real time audio feature extraction and classification on FPGA.
- Sign Language Recognition using Convolutional Neural Networks in Python.
- Automatic Plant Watering and Monitoring System on different platforms i.e Arduino, AVR, FreeRTOS.
- Driver Alert System in C++.

Achievements

• Won Gold Medal in Chess at SEECS.
• Won Squash Gold Medal in Domestic Tournament held in Mangla Cantt.
• Qualified for scholarship in Intermediate, Fazaia College Lahore.

Community Involvement

- Project Insaniyat.
- WWF Eco Internship.

Extra Curricular Activities

- Chess
- 3D Modeling
- Video Editing
- Swimming
- Squash
- Poetry



Ammaz Anwar

Email Address ammaz99@gmail.com
LinkedIn profile https://www.linkedin.com/in/ammaz99/

Career Objectives

I am a dedicated, organized and methodical individual, able to handle multiple tasks. I have a creative approach for problem solving. I am a good team member. I am enthusiastic to learn and develop new skills. I am reliable & dependable and often seek new responsibilities within a wide range of opportunities. I have an active and dynamic approach to work and getting things done. I am determined and decisive.

→ EDUCATION

2021 BEE SEECS, NUST H-12, Islamabad. (3.58 CGPA)
2017 FSc, Pre-En FG Sir Syed College, the Mall, Rawalpindi Cantt. (93%)
2015 Matric Fazaia Inter College, Nur khan Airbase, Rawalpindi (95%)

→ WORK EXPERIENCE

June '19 On going Realtime Intelligent Secure Computing lab, SEECS
Started as a Research Intern. Learned Digital Design using verilog HDL, and Computer Organization for processor design. Designed RISC-V standard 5 stage pipelined soft core processor on Altera's DE-1 FPGA board.
June '18 Aug '18 WWF, Islamabad - Eco Intern.
Worked on a group project titled "Food Waste Management". Proposed certain solutions to current food wastages in restuarants and households of Islamabad / Rawalpindi.

→ PROFESSIONAL & TECHNICAL SKILLS

Coding Python, Matlab, C, CPP
Digital Design Verilog, Altera and Xilinx FPGAs
Circuit Design Proteus, PSpice, MultiSim, Logisim
Communication Presentation Skills, Oral and written communication

→ ACADEMIC PROJECTS

=> Real Time Attendance System Using Facial Recognition on Edge Deivce.
=> FreeRTOS Emulation of Self Navigating Car. => Hand Written Digit Classifier. => Soft core processor design in Verilog HDL - MIPS and RISC-V. => Smart Street lights using AVR. => Library Management System using CPP Data Structures. => Smart Blind Stick using OOP - on Arduino. => 3D Map of NUST, using AutoCad 2018. => Scientific Calculator in C language.

Achievements

=> Stood 28th / 11059 in Pakistan in 6th International Kangaroo Mathematics Contest.
=> Got 3rd Position in All Pakistan painting Competition organised by Fazaia Schools and Colleges.

Community Involvement

=> Former Team member - Project Insaniyat.
=> Former Director – TABA Youth Chapter NUST.

Extra Curricular Activities

=> Former Member Organizing Committee – NUST International Model United Nations'19.
=> Former Executive – NUST Trekking Club, NUST Dramatics Club and NUST Technical Amusement Club.
=> Former student ambassador – 6th National Science Bee, 2017.
=> NUST Campus Ambassador – International Science and Youth Symposium, GIKI 2018.



Saad Nadeem

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Career Objectives

To succeed in a stimulating and challenging environment that will provide me with opportunities and help me grow, both professionally and personally.

→ EDUCATION

2021 BEE National University of Sciences & Technology (NUST)
2017 HSSC APSACS, Gujranwala Cantt
2015 SSC APSACS, Ordnance Road, Rawalpindi

→ WORK EXPERIENCE

May 2020 July 2020 Quora
Data Analyst: Tagging answers to develop a machine learning dataset to recognize profit affiliation.
Nov 2019 Jan 2020 RISC Lab, SEECS
Intern: Simulated Implementation of a 5-stage pipelined RISC - V Processor on LogiSIM.
Verliog lab exercises on Altera DE10.

→ PROFESSIONAL & TECHNICAL SKILLS

Hardware NVIDIA Jetson Nano, FPGAs, AVR, Arduino, STM32F4
Software MATLAB, PSpice, Quartus II, AutoCAD, LabVIEW, Atmel
Programming Skills Verilog HDL, C++, Python, HTML/CSS, FreeRTOS
Soft Skills Teamwork, Multi Tasking, Time-Management, Creativity

→ ACADEMIC PROJECTS

1. Real-Time Face Recognition based Attendance System using Deep Neural Networks on NVIDIA Jetson Nano
2.SmartSprout: Automatic Plant Monitoring and Watering using AVR
3. 3D Model of NUST- H/12 using AutoCAD
4. Travel Site using HTML/CSS

Achievements

- Twice receipient of high achiever's GPA based scholarship (NUST-SEECS)
- High Achiever's Annual Scholarship (Top 30) for Intermediate Education (FBISE)

Community Involvement

- Runner Up Class for Project Insaaniyat (Local Food Drive)
- Volunteer at Chadar (Responsible for Collection of Clothes and Charity)

Extra Curricular Activities

Director Decor - IEEE SEECS
Executive Decor - ACM SEECS
Campus Ambassador - TraValley
Director Decor - Global Village I

MUHAMMAD OSAMA NUSRAT

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LinkedIn profile <https://www.linkedin.com/in/muhammad-osama-nusrat-834274141/>

Career Objectives

"Work for an organization which provides me the opportunity to improve my skills and knowledge to growth along with the organization objective"



EDUCATION

2014	SSC	SIDDEEQ PUBLIC SCHOOL
2016	HSSC	HAMZA ARMY PUBLIC SCHOOL AND COLLEGE
2021	ENG	NUST SEecs



WORK EXPERIENCE



PROFESSIONAL & TECHNICAL SKILLS

Soft Skills	Work Ethic
Soft Skills	Interpersonal Skills
Technical Skills	Html , Css, Bootstrap, Python , C++, Matlab
Technical Skills	Proteus , Citcuit building , PCBs



ACADEMIC PROJECTS

BATTERY MANAGEMENT SYSTEM FOR LEO SATELLITES
HOSPITAL MANAGEMENT SYSTEM
TIC TAC TOE
OBJECT DETECTION USING YOLOV5
FRONT END WEB PAGE & WEBSITE USING HTML CSS AND BOOTSTRAP

Achievements

Community Involvement

Extra Curricular Activities

CRICKET
GAMING
RESEARCH



FARAZ AWAN

Email Address fwan.bee17seecs@seecs.edu.pk

LinkedIn profile www.linkedin.com/in/faraz-awan-474547196

Career Objectives

Highly motivated Electrical Engineering student with useful knowledge and experience in computer hardware and software domain. I am seeking a challenging position where I can apply my expertise as well as learn and continually grow my career.



EDUCATION

2021	BE Electrical	National University of Sciences & Technology (SEECS)
2017	A'Level	Lahore Grammar School
2015	O'Level	The Lahore Alma



WORK EXPERIENCE

01/2020 to 03/2020 Rapidev DMCC (Paid Internship)
Hardware and software development internee.
Developed automatic drone detector using deep learning on Jetson Nano.



PROFESSIONAL & TECHNICAL SKILLS

Programming	Python, Tensorflow, C/C++, R, MATLAB, HTML/CSS/JS/PHP
Hardware	Arduino UNO/Leonardo, AVR, Jetson NANO
Software	RStudio, Atmel Studio, Arduino, Git, Proteus, ModelSim
Soft Skills	Teamwork, Communication skills, Adaptability, Work ethics



ACADEMIC PROJECTS

Gesture Controller using AVR
Prim's & Kruskal Algorithm GUI using Processing IDE (Java)
Automatic Plant Monitoring System using Arduino & HTML
Crop Disease Detection using Tensorflow & Android Studio
Word Prediction App using RStudio & Shiny
Game Wiki Website Development (Online Community Forum)

Achievements

Outstanding Achievement Award, O'Level

Academic Award, A'Level

Data Science Specialization, John Hopkins University (Coursera)

Deep Learning Specialization, DeepLearning.AI (Coursera)

Community Involvement

Fund raising campaign and meal distribution for Project Insaniyat, a community service initiative.

Extra Curricular Activities

NUST Robotics Club (NRC)
Graphics Executive at NRC

Event organization and management at NUST Science BEE and Olympiad

Syed Muhammad Izhar Zaidi

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Career Objectives

A strong desire of a job where i can demonstrate my technical and managerial skills, Implement my ideas and contribute to the company.



EDUCATION

2021	BEE	NUST(7 semester, CGPA : 2.56)
2017	A'levels	Al Majd International School, Dammam, Saudi Arabia
2015	O'levels	New World International School, Dammam, Saudi Arabia



WORK EXPERIENCE

Oct, 2020	June 2021	Vice President at Professional Persona Forum(P2F)
We as a society of School of Electrical Engineering and Computer Science (SEECs), NUST work to polish the essential soft skills of students of SEECs that are necessary for a professional work environment.		
Sep 2017	Jun 2018	SEECs
Acted as Batch President in freshmen year, managing a batch of 200 students. Organized an event of food stalls. Other than that i have been in organizing committee of most NUST Events.		



PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Matlab
Softwares	Simulink, AutoCad, LabView, PSpice, MS Office
Hardwares	AVR Microcontroller
Soft Skills	Leadership, Management, Street Smart



ACADEMIC PROJECTS

Optical Character recognition (Final Year Project)
Heartbeat sensor project using avr (Plotting FFT in matlab).



Usama Ahmad

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Career Objectives

Aiming to utilize my programming and computer hardware expertise in practical and fast-paced environment. My goal is to assume a role in which to apply my skills for a well-respected, innovating company while continuing to improve upon myself.



EDUCATION

2021	BE Electrical	National University of Science and Technology (SEECs)
2017	A-Levels	Lahore Grammar School
2015	O-Levels	The Lahore Alma



WORK EXPERIENCE

7/18	8/18	Akhuwat
Community Service Internee at Clothes Bank Participated in marketing and awareness campaigns		
10/19	3/20	Rapidev PVT Ltd, NSTP NUST
Hardware team internee. Developed LoRaWAN communication network on STM32 microcontroller for intruder detection application.		



PROFESSIONAL & TECHNICAL SKILLS

Programming	Python,C/C++,HTML,R,Verilog,MATLAB
AI/Machine Learning	Tensorflow,Keras,Pytorch
Hardware	AVR, Jetson, STM32, ARM
Software	R Studio, Git, Keil, Arduino. Proteus, Quartus, Modelsim



ACADEMIC PROJECTS

Path Planning Robot using Arduino and OpenCV
Gesture Controller using FreeRTOS
Automatic Plant Monitoring System
Crop Disease Detection using Tensorflow and Android Studio
Website development (Online Community Forum)



Abdul Aziz Chaudhry

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LinkedIn profile <https://www.linkedin.com/in/abdul-aziz-chaudhry/>

Career Objectives

I am a responsible and hard-working individual, exploring dynamic avenues of engineering and management. Being an Engineering student, with sound problem-solving skills, I love to replace challenges with creativity. With good leadership and interpersonal skills, I am passionate to grow in a diverse and inclusive environment.

EDUCATION

2021	BEE	National University of Sciences and Technology, Islamabad
2017	F.SC	Cadet College Hasanabdal
2015	Matric	Cadet College Hasanabdal

WORK EXPERIENCE

Sep-2019 Dec-2020 Research Assistant - Embedded and IOT Lab - SEECS

- Assisting with academic research and preparing materials for grant funding
- Performing market research, attending project meetings, area seminars and procuring optimized equipment for research purposes.

July -2019 Sep-2019 Saving 9

- Researching relevant organizations, initiating contact and setting up/facilitating meetings for collaborations
- Worked in collaboration with marketing and training department to ensure product development and expansion of Saving 9 portfolio

PROFESSIONAL & TECHNICAL SKILLS

Programming	C/C++, SQL, MATLAB
Embedded/IOT	PCB designing, EagleCAD, Microcontrollers, IOT
Communication	Communication and Interpersonal skills
Technical Writing	Writing and Editing skills

ACADEMIC PROJECTS

- Worked on academic projects (Final year, research, and semester projects) and commercial projects (freelancing client-based projects)
- Presented and published research paper on "IoT and ML enabled Livestock Monitoring" as first author in HONET 2020 - 17th IEEE International Conference on Smart Cities: Improving Quality of Life using ICT, IoT and AI.

Achievements

- Certificate of Excellence for being 7th in RBISE in SSC Examination
- 3rd in All-Pakistan Bilingual Declamation (English)
- Microsoft Imagine Cup National Finalists – 2021
- Microsoft Imagine Cup National Finalists – 2021
- 2nd Runners Up in Hult Prize

Community Involvement

- Team Head for Project Insaaniat
- Internship at TCF Citizens Foundation
- Internship at Akhuwat Foundation
- First-Aid Training at Saving 9
- Mental Health Awareness Campaign leader as part of Community service learning

Extra Curricular Activities

- Deputy Director NUST Dramatics Club
- Deputy Director NUST Literary Circle
- Wing Commander - Cadet College Hasan Abdal
- Organizing committee SEECS Open House
- Editor – Magazine (English Section)
- V.Captain College Football Team
- Member of College Cricket Team



Farheen Asif

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LinkedIn profile <https://www.linkedin.com/in/farheen-asif-b51616186/>

Career Objectives

I am interested to wrk for a position in the domain of Artificial Intelligence, optimization, and embedded systems to apply the concepts of Machine Learning and Deep Learning for Hardware interfacing. I am an ambitious, hardworking person aim to work with experienced individuals in a developing atmosphere, who value my integrity and share my passion to achieve higher targets

EDUCATION

2021	BEE	NUST
2017	HSSC	Punjab Group of Colleges Lahore
2015	SSC	Himayat-i-Islam Higher Secondary School Lahore

WORK EXPERIENCE

1st May 2021 31st October 2021 Ecole polytechnique fédérale de Lausanne(EPFL)

Got selected for MLO lab Summer Research Internship with approx. 2% selection rate , Worked on the data collection of "COVID self-reports based misleading heat maps" and on

10th June 2021 3rd March 2022 TU Kaiserslautern Lab-NUST SEECS

Worked on hardware acceleration of FPGAs for the project "Training Aware Quantization of Deep Neural Networks using brevitas Xilinx". Used Deep Learning based various networks

PROFESSIONAL & TECHNICAL SKILLS

Software Skills	MATLAB ,PLC ,ADS ,Labview ,XILINX Vivado, LINUX, VS,
Programming Language	Python, C/C++, HLS, AVR Assembly, HTML, CSS, Verilog/V
Hardware platforms	XILINX zc706,PYNQ,Atmel AVR,Stm32,Arduino,ARM Cortex
Soft Skills	Teamwork, Conflict Management, Communication, Leadership

ACADEMIC PROJECTS

HLS based implementation of Epileptic seizure detection, Face recognition through Open CV, Smart Cylinder, SAFE TRAVELLERS, Species Recognition using ML , Smart Sprout: Automatic Plant Monitoring and Watering System, Training Aware Quantization of Deep Neural Networks, Crop Data Analysis using Machine Learning Algorithms, Digital Periodic Table

Achievements

Gold Medalist: Academic Excellence Award 2017
HARVARD certified: MOOC on Entrepreneurship in Emerging Economies
IAPR Summer School: event organizer of 3rd IAPR SS on document analysis first time held in Pakistan
ICT Huawei certified: Certified Training on Routing and Switching

Community Involvement

Write Community Involvements
HereChadar Street School Volunteer
Sponsor A Child, Dir Finance
TCF Volunteer
Akhuwat Foundation Volunteer

Extra Curricular Activities

Ambassador Million Smiles
Vice President ACM-Women NUST
Vice President NCBS 2020-21
Vice President YPEGricular

Muhammad Shaarif

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Career Objectives

Specialize in the field of Power Engineering with focus on transmission system, renewable energy and other sustainable systems by having Industrial experience and continuing studies for in depth knowledge.

EDUCATION

2021 BEE SEECS, NUST, Isb, Pakistan.

2016 A levels PISJ-ES, Jed, Saudi Arabia.

2014 O levels AIS, Ynb, Saudi Arabia.

WORK EXPERIENCE

August 2020 Telenor.

"Foundations in Design Thinking".

PROFESSIONAL & TECHNICAL SKILLS

BEE Arduino, Matlab, Pspice, C/C++, Multism.

Soft skill Team work, entrepreneurship, leadership.

ACADEMIC PROJECTS

1- Cardiac telemetry system: Point of care diagnostic device for Ecg monitoring, analysis and recommendation.

2- Quadcopter: IoT project, designing an UAV using off the shelf hardware.

3- Safe wallet: Application.

Achievements

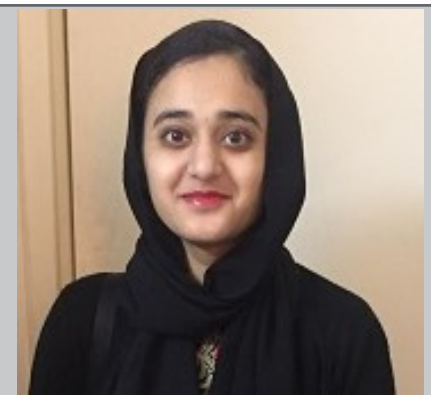
PISJ-ES award for securing all A grades in As level.

Community Involvement

Community service for under developed areas of Islamabad following Covid-19 SOPs.

Extra Curricular Activities

Blogging, Squash, Cricket.



Ayman Tanveer

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Career Objectives

Resourceful and dedicated Electrical Engineer adept at short- and long-term electrical system troubleshooting who thrives in a fast-paced environment and handles the work of HR, content writer, marketing executive well when required. Able to handle multiple projects simultaneously with high professionalism and accuracy.

EDUCATION

2021 Bachelors National University of Science and Technology (NUST)

2017 HSSC Army Public School and College Sarai-Alamgir

2015 SSC Army Public School and College Sarai-Alamgir

WORK EXPERIENCE

July 2019 Sep 2019 Anzen Technologies

Worked as an IoT engineering intern. The development of cloud based platform for various IoT devices manufactured and working on mobile app development were the main tasks.

July 2020 Sep 2020 Minerva Pakistan

Worked as an HR executive. Key responsibilities included aiding in hiring, on-boarding process of interns, managing the performance matrices of other teams and keeping the talent pipeline warm.

PROFESSIONAL & TECHNICAL SKILLS

Programming C, C++, Python

Technical software LabView, Matlab, Visual Studio, Atmel Studio, HFSS

Design software AutoCad, MIT App Developer, NI Multisim, Photoshop

Soft Skills Stress management, Team work, Communication skills

ACADEMIC PROJECTS

- ✓ RF energy Harvesting Devices
- ✓ Wireless water quality and level monitoring
- ✓ Non-linear predictive controller of pharmaceutical reactors
- ✓ Home automation system in IoT domain
- ✓ Simulating Islamabad Road Pathways using Data Structures

Achievements

- ✓ 18th position in Federal Board, Receiving annual scholarship
- ✓ Microsoft Engineering Virtual Experience Program
- ✓ "Preparing to manage Human Resources" -by university of Minnesota
- ✓ "Supply chain Principles"-by Georgia Institute Tech

Community Involvement

- ✓ member to UPG sustainability leadership class 2021
- ✓ Community Service at Akuwat Foundation
- ✓ Experience at NUST LITERARY CIRCLE (Human Resources & ER)
- ✓ Research of Language Policies and Delusions in Pakistan
- ✓ member of YPEG women wing

Extra Curricular Activities

- ✓ Science Editor at Spectra Magazine by young engineers community
- ✓ Telenor Design Thinking training
- ✓ Ufone Master Class on MS Excel
- ✓ Content Writer Milestone Zero for marketing of electronic gadgets.
- ✓ Freelancing at Brainly.com as Mathematics evaluator



Fiza Faisal

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Career Objectives

Proactive team leader who has led teams of 200+ individuals and managed operations, sponsorships, and marketing of national level events. Gained 1 year of practical experience through Internships, freelancing, projects, and online courses. Looking to work in a dynamic environment that stimulates growth and offers challenges for self-improvement

→ EDUCATION

2021 B.E Electric: National University of Science and Technology (NUST)
2017 FSC Joint Staff College , Rawalpindi
2015 Matric Army Public School ,Okara Cantt

→ WORK EXPERIENCE

Sept 2020 Oct 2020 Rezaid

Aug 2020 Sep 2020 Afiniti

→ PROFESSIONAL & TECHNICAL SKILLS

Programming Python, C++, C, MATLAB
Softwares PSPICE, ADS, AutoCAD, Streamlit, Microsoft Office,VS
Soft Skills Leadership, public speaking and conflict management

→ ACADEMIC PROJECTS

Achievements

UN Millennium fellow 2020
Reckitt Benckiser Global Challenge Campus Finalist
Medal of Excellence in Matriculation
High Achiever s Certificate in Pre-engineering

Community Involvement

Headed a major community service project "Insaniyat" in my university. Collected and managed funds exceeding PKR 1.5 lakh for charity which were later spent on food drives, old age homes, SOS

Extra Curricular Activities

President Orientation of NUST 2020
General Secretary at NUST Literary Circle (NLC)
Vice President Student Government NUST SEECS
Vice President NUST Summer School



Daniyal Zahid

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Career Objectives

To work for a position of Electrical engineer that will enable me to use my strong organizational skills, award-winning educational background, and ability to work well with people.

→ EDUCATION

2021 BEE National University of Sciences of Technology, Islamabad
2017 Inter Punjab Group of Colleges,Lahore
2015 Matric P.R Railway Boys High School, Lahore

→ WORK EXPERIENCE

From To Organization
Brief summary of key responsibilities - work / research experience

From To Organization
Brief summary of key responsibilities - work / research experience

→ PROFESSIONAL & TECHNICAL SKILLS

EE MATLAB
EE LABVIEW
EE Proteus
Digital Marketing SEO,SMM

→ ACADEMIC PROJECTS

Water Level Monitoring and Quality Control - FYP
University Database System - Semester Project
Speed Controller of 3 primary Motors - Semester Project

Achievements

Honors, Awards or any other Worth Mentioning Achievements

Community Involvement

Media Executive - TABA
Volunteer - Nust Community service club

Extra Curricular Activities

Digital Marketing
Photography
Video/Photo Editng
Graphics Designing

SANA SHAKEEL

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LinkedIn profile [Sana Shakeel](#)

Career Objectives

Looking for a innovative workplaceenvironment where I can work with new projects and improve my skill set.



EDUCATION

2021	BEE	SEECs, NUST
2017	FSc	Fauji Foundation College for Girls, New Lalazar, Rawalpindi
2015	Matric	Fauji Foundation College for Girls, New Lalazar, Rawalpindi



WORK EXPERIENCE

Achievements

Community Involvement

Environmental Intern at WWf



PROFESSIONAL & TECHNICAL SKILLS

Blockchain	Dapp development, Solidity smart contracts
Designing	Adobe Illustrator, Adobe Photoshop, Auto Cad
Miscellaneous	MS Word, MS Excel, MS Powerpoint

Extra Curricular Activities



ACADEMIC PROJECTS

Blochchain based Smart Energy Meter
Atmega16 Smart medicine dispenser
lot based Waste Management System
lot based Home Automation



TABEER SAJJAD

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Career Objectives

A dedicated Electrical engineering student. Experienced in the domains of Media and Event Management.
Seeking to leverage my knowledge and expertise to maximize productivity and quality of Electrical operations.
Eager to develop my skill set to improve myself personally and professionally.



EDUCATION

2021	BEE	NUST H-12 Islamabad
2017	F.Sc. Pre-Er	Kinnaird College for Women, Lahore
2015	Matriculation	APSACS, Gujranwala Cantt



WORK EXPERIENCE

June 2019 Aug 2019 IoT Lab SEECs
Research Intern - Worked on the design of a smart military jacket.

Sep 2020 Oct 2020 Afiniti
Software Quality Assurance Intern - Performed Black Box Testing under highly-skilled supervisors.
Product - AI Based Customer Service Software



PROFESSIONAL & TECHNICAL SKILLS

Electrical engineering	PSpice, MATLAB, AutoCAD, Multisim, Verilog, Arduino
Programming	C, C++, Python, HTML, CSS, Javascript, PHP, Pytorch
Interpersonal skills	Communication skills, presentation skills
Other skills	MS Office, Photography, Graphic Designing



ACADEMIC PROJECTS

Real-Time Mask Detection (Machine Learning), Quadcopter (ECD), Obstacle avoiding Robot using AVR microcontroller (MPS), 'Huffman tree' (DSA), Hospital maintenance system (DLD), "Battleship game" in C++ (OOP), Wooden bulldozer model (Workshop practice), 3D map of NUST (AutoCAD), 'Tic Tac Toe' game in C.

FATIMA IRFAN

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Career Objectives

- Develop my learning ability & skills.
- Acquire challenging role in reputable organization
- To enhance my technical knowledge

PHONE: +923319232605

Achievements

- Project winner at Insaniyat
- Participant of several technical competitions

Community Involvement

- Food Drives
- Visitor at MGQ old age home shelter

Extra Curricular Activities

- Reading Novels
- Cooking
- Movies

→ EDUCATION

- 2015 SSC APS Tarbela
- 2017 FSC APS Joint Staff
- 2021 BEE NUST

→ WORK EXPERIENCE

- **Internee at WWF:**
2018
Social Work
- **Internee at Ericsson Pakistan**
2018
Member of technical team

→ PROFESSIONAL & TECHNICAL SKILLS

- Organizational | communication | problem solving skills
- MATLAB | Labview
- HFSS | CST | ADS
- C/C++ | Arduino
- Pspice | Proteus

→ ACADEMIC PROJECTS

- Smart Intruder Alarm (Electronic Circuit)
- Smart Street Light System(AVR)
- Accident Prevention System(Open CV)
- Hospital Management System(Digital Logic Design)
- RF Energy Harvesting



SHER SHAH EJAZ

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LinkedIn profile <https://www.linkedin.com/in/sher-shah-120826196/>

Career Objectives

Seeking employment as an Electrical Engineer to contribute my knowledge and academic skills to the organizational operations where I can use my leadership qualities and technical skills to the upliftment of the organization as well as for my personal growth.

→ EDUCATION

- 2021 BEE National University of Science and Technology
- 2016 Fsc F.G.Sirsyed college
- 2014 Matriculation Siddeeq Public School

→ WORK EXPERIENCE

- 07-2018 11-2018 Student Government Association SEECS
Management of all sports activities held at SEECS
- 08-2017 12-2017 Community Service Insaaniyat Project
Aimed at welfare of backward areas of Islamabad

→ PROFESSIONAL & TECHNICAL SKILLS

- Electrical Power System Analysis and design
- Electrical Matlab, Proteus
- CS, Software C, C++, Python
- Mechanical Autocad

→ ACADEMIC PROJECTS

- Smart Grid Energy Sharing System
- Tic Tac Toe game
- Ball and Beam control system
- Voting machine using Microprocessor

Achievements

-CRICKET
I have represented Islamabad U-16, U19 and senior district team in the year 2014, 2016 and 2018 respectively. Currently, I am playing for Essco Cricket Club, Islamabad -3RD POSITION IN 1ST YEAR FSC Stood 3RD in my college in Fsc 1st year.

-INTERNIST CRICKET CHAMPIONS

Community Involvement

Part of Insaniyat project aimed at distribution of food, clothing among slums of Islamabad. Qualified Community Services Learning course

Extra Curricular Activities

Cricket
Hiking
Running



SYED SAAD

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LinkedIn profile LinkedIn ID https://www.linkedin.com/in/syed-saad-303346140/

Career Objectives

I strive to keep learning and improving myself and the world around me day after day by trying to be the best possible version of myself

EDUCATION

- 2021 BEE National University of Science and Technology (NUST),Isb
- 2017 A levels Pakistan School Muscat
- 2015 O levels Pakistan School Muscat

WORK EXPERIENCE

- 06/2020 - 12/2020 UN Millennium Campus Fellowship
During my time as a Millennium Fellow started a grassroots awareness educational opportunities awareness campaign to help students from challenging economic backgrounds
- 06/2019 - 08/2019 Engineering intern at NBP Head Office Karach
While at NBP participated in a study to calculate whether power generated by the available gas generators was going to be cheaper than buying it from the national grid

PROFESSIONAL & TECHNICAL SKILLS

- Engineering Matlab & Simulink
- Engineering Arduino
- Social Media Social Media Marketing,Content writing & SEO
- Personal Public Speaking

ACADEMIC PROJECTS

- Smart Ventilator - for my FYP
- Voting machine, Heart rate monitor, Binary to BCD converter

Achievements

- Straight A's in O levels
- Was selected to be a UN MCN fellow and was part of the only batch from Pakistan
- Was a founding member for a social media entertainment news startup

Community Involvement

- Oragnised and participated in blood donation drives organised by Nust Societies.
- Oragnised and participated in an HIV and Hepatitis awareness and information session

Extra Curricular Activities

- Muscat under 13 cricket championship winners 2012
- Really good at FIFA; the best in my class



Muhammad Hamis Haider

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Career Objectives

I've developed an admiration for the vision of design proposed by RISC V consortium: simplicity. With this approach I've found many of my designs in my part-time job as Hardware Design Engineer at Rapidev DMCC were improved and appreciated. My carrer objective is to bring the flexibility and freedom of expression as present in the software design ecosystem to the hardware design ecosystem. Taking Pakistan's economy forward by taking advantage of Pak-China ties and developing indigenously designs chips.

EDUCATION

- 2021 BEE National University of Sciences and Technology
- 2017 CIE A'Level Lahore Grammat School, JT. Boys Campus
- 2015 CIE O'Level The Crescent School

WORK EXPERIENCE

- Jan, 2018 Present RISC Lab
Research Assistant:
Focus: Development of RISC Processor using RISC V Specifications
Major Contributions: G-Share based Branch Prediction Unit (BPU), Two-Level and Two-Level Adaptive BPU, Google Digital Verification
- Oct, 2018 Jun, 2020 Rapidev DMCC
Develop proprietary hardware for the solutions offered by Rapidev. Design new efficient hardware when required. Develop, maintain, and update firmware for the devices. Propose new innovative changes to the current company product showcases

PROFESSIONAL & TECHNICAL SKILLS

- Hardware Design SystemVerilog, Verilog, VSIM, Proteus, FPGA Design
- Software Design Python, C, C++, Java, HTML, CSS, JS, PHP, MySQL
- Machine Learning Octave, TensorFlow 3, PyTorch
- Microcontrollers PLC, AVR Assembly, ARM Assembly, KEIL, C-language

ACADEMIC PROJECTS

- 5 Stage Pipelined RISC V Core with Integer Support (First task at RISC V Research Lab)
- Dynamic Obstacle Avoiding for Automated Drones (FYP)
- Water Management System (FICS 2019 Finalist, Professor Sponsored Project)
- OpenCV Color Sorter with 4 DOF Robotic Arm (Semester Project)
- RC Car with 2-DOF Self-balancing Platform (Semester Project)

Achievements

- Best Squad at Buraq Sapce Camp (2017)
- Best in Computer Sscience Award (2017)

Community Involvement

- IEEE Women In Engineering (WIE) Workshop NUST Robotics Club, NUST
November 2018Event consisted of introducing the new intake of students to the modern research and advancements in their respective fields. To inspire the incoming batch to not be limited by social norms and achieve their dreams as they are now part of a community.

Extra Curricular Activities

- Finance Secretary (Office Bearer) NUST Robotics Club 2018-2019
- General Secretary (Office Bearer) NUST Robotics Club 2019-2020
- Intern Rapidev, DMCC June 2018 - Sept 2018



HANNAH NADEEM

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LinkedIn profile Hannah Nadeem

Career Objectives
I am looking for an opportunity in a reputed organization which will help me deliver my best and upgrade my skills in engineering and meet the demands of the organization.

→ EDUCATION

2014 Matric Siddeeq Public School, Rwp.
2017 F.Sc Punjab College F-8/4, Islamabad.
2021 B. Electrical SEECS-NUST

→ WORK EXPERIENCE

Jan 2019 Feb 2020 AUJ- formula racing Pakistan
Technical executive particularly concerned with design of power train.

April 2020 July 2020 NEPRA
Printing, assembling and reviewing all the generated liscences for solar net metering.

→ PROFESSIONAL & TECHNICAL SKILLS

Blockchain Dapp development, Solidity smart contracts
Designing Adobe photoshop, Auto CAD
Data processing MS word, MS excel, MS powerpoint
Simulation software Matlab/simulink, LTspice, Proteus, ModelSim

→ ACADEMIC PROJECTS

- Opencv based face recognition app for security
- Opencv based color sorter
- Smart medicine dispenser
- Water level indicator
- Blockchain based smart energy meter

Achievements

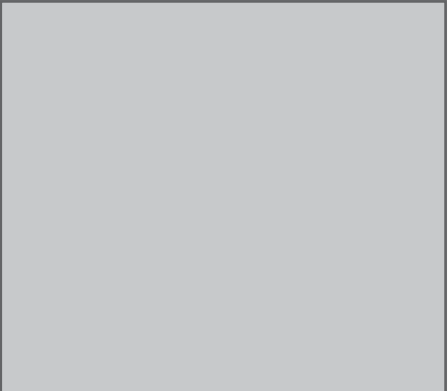
Community Involvement

Fundraising volunteer at Al-khimdat foundation.
Environmental intern at WWF

Extra Curricular Activities

won various arabic and persian calligraphy competitions at matric and intermediate level.

organised various events within university as an HR executive.



Syed Hassaan Muzammil

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Career Objectives
I want to advance my AI and Data Science skills by working on cutting edge technology and develop innovative end-to-end solutions.

→ EDUCATION

2021 BEE NUST SEECS
2017 A level Beaconhouse Margalla Campus
2015 O level Beaconhouse Margalla Campus

→ WORK EXPERIENCE

Oct 2020 Present Internet of Things Lab, SEECS
Developing an end-to-end livestock monitoring application. The generic sensor board can be used for other IoT applications providing an open-source hardware platform.

Feb 2020 Present NSTP Hatch-8
Aiming to take the above idea to a full-fledged business prototype ready for the market.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming Python, C++, MATLAB, SQL, Git
Deep Learning Specialization (deeplearning.ai)
Data Science Certification (workera.ai)
Cloud Computing Azure ML Studio, Power BI

→ ACADEMIC PROJECTS

- Garment based Motion Capture, RLSA Scanned Document Parameters
- Deep Steganography, Flower Classification, YOLO Object Detection, Neural Style Transfer, Spam Email Detection, Brain MRI diagnosis
- Water Depth Regulator System, Smart Parking Model
- Airport Baggage Management, Roadway Simulation, Game Development

Achievements

- Cofounder of start-up: LiveIoT
- Runner up: HULT Prize NUST 2020
- Microsoft Imagine Cup Finalist
- Selected for Hatch-8 NSTP
- Presented "IoT & ML enabled Livestock Monitoring" at IEEE HONET 2020

Community Involvement

Proactive participation in communal problems
Teaching
Football Coaching
Mentorship

Extra Curricular Activities

Football:
- Co-founder KRL Football Club Jrs.
- Beaconhouse Intra Region 2015 Winner, PoTC, Top Scorer
- SEECS Futsal League 2019 Winner, PoTC, Top Scorer
- Gained valuable leadership and teamwork skills.

Other:
- Sports (Cricket, Badminton)
- Travelling

Muhammad Hassaan Yousaf

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Career Objectives

"For my passion to enhance the mode of travelling, I seek experience in automation and control processes. My aim for my own automobile industry drives my loyalty and passion for the technical or managerial work for any reputable organization."

EDUCATION

2014	Science	KRL Model School Kahuta
2017	Pre Eng.	KRL Model College Kahuta
2021	EE	NUST

WORK EXPERIENCE

2018	2019	Worldwide Wildlife Fund
Sub head of food wastage management. Managing and leading the critical thinker and execution teams assigned for planning, executing and over looking several projects.		

2020	2021	Renzyme Lab
Working with a professor on basic level C++ programmable projects.		

PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Assembly and Python language skills
EE Softwares	MATLAB, Simulink, ADS, Proteus, LabView, Pspice, Lvdac
Mechanical	PCB Designing, Lathe, Wiring, Welding, Forging
EE Designing	Circuit development, Magnetic circuits, Micro Processors

ACADEMIC PROJECTS

Smart Timetable, Smart Attendance, Insignificant Zeroes Reduction, Nearest Wi-Fi Connection Finder, RPM Detector and Controller, Active Suspension (Prototype), Complete Electric Vehicle Design on Simulink, Active Magnetically levitated Suspension



HUZAIRA JAVED

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Career Objectives

I am a target-oriented and motivated student of Electrical Engineering who is seeking to leverage her workaholic nature and active learning skill, to maximize the productivity and quality of company's projects. I have a creative approach for problem solving. I am a highly organized and hard-working individual looking for a responsible position to gain practical experience in a reputable organization.

EDUCATION

2021	BEE	SEECS, NUST, Islamabad
2017	FSc Pre En	Punjab Group of Colleges
2014	Matric	APS (Azam Garrison)

WORK EXPERIENCE

Sep '20	Oct '20	Orenda Project
Worked as Sales Associate in B2C Segment. Achieved sales target. Received commission on sales closed. Got hands-on experience on Leads Squared and Zoho Ticketing system. Performed Quality Assurance and Marketing tasks,		

Jun '18	Aug '18	WWF-Pakistan
Performed tasks as Eco Intern. Lead my team members in the project titled 'Recycling of Plastic'. Installed vertical garden on roadside by reusing plastic bottles. Hosted awareness campaign on recycling of plastic.		

PROFESSIONAL & TECHNICAL SKILLS

Coding	Python, Matlab, C, CPP
Circuit Design	Proteus, PSpice, MultiSim, LabView
Digital Marketing	Photoshop, Canva, Google Ads, Google Analytics, SEO
Communication	Presentation Skills, Verbal and Written Communication

ACADEMIC PROJECTS

=> Camera based Fish Health Monitoring for Aquaponics => Mask Detection using Computer Vision => Water Tank Level Control System => Super Sensitive Intruder Alarm with LM358 => Obstacle Avoiding Robot Car with Atmega16 => Digital Voting Machine in PSpice => Safe Travels App using DSA => Battleship Game using OOP => Tic Tac Toe in C => NUST Map in AutoCad

Achievements

Scholarship Holder: Middle School
High Achiever Award: High School
Silver Medal Holder: Matric Result
Full Fee Waiver: Intermediate Level
Second Prize Holder: All NUST
Cycling Competition
Best Deputy Director: TABA Youth Chapter NUST
Runner Up Prize: Project Insaniyat

Community Involvement

TABA Youth Chapter NUST: Former Deputy Director Human Resources
Project Insaniyat: Former Team Member.
Chadar NUST Chapter: Former Volunteer
The Read Foundation: Former Fund Raiser
The Citizen Foundation: Former Summer Intern
Blood Donation Drives
Tree Plantation Drives

Extra Curricular Activities

What the Scoop: Worked on my start up idea
SEECS Convocation: Former Member of Operations Team
NUST Job Fair: Former Member of Management Team
NUST Paragliding Club: Former Member of HR Team
Debating Competition
Arts Competition
Math Contests

Achievements

Programming for Everybody, Coursera certification.
Python Data Structure, Coursera certification.
Modern Robotics, Coursera certification.
Microsoft Virtual Internship, Microsoft certification.

Community Involvement

AAS(NGO) Ambassador from NUST.
(Providing financial support to families reaching out to us)
Insaniyat Project Winner in NUST.
(Collecting funds of 1 lac. Providing sewing machines, clothes, food, gifts at orphanages, and medicines to old age homes)
Worldwide Wildlife Fund intern.

Extra Curricular Activities

Office Bearer at SGA.
Treasurer at SGA.
Admin Event member at IEEE.
Ushers Lead at HONET ICT.
Farewell 18 and 19.
Welcome 18 and 19.
Orientation 18, 19 and 20.
Stage technical at NDC.
Actor at SEECS Drama Festival.
Takra 18 moderator.
TUKL Cultural Night management.
SEECS Sports festival 18 and 19.
SEECS Food festival manager.



Mannan Rauf

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Career Objectives

An Enthusiastic Electrical Engineer eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Excited to use my skillset to bring innovation with my work. Motivated to learn, grow and excel in Professional career

EDUCATION

2015	O-Levels	Pakistan School Muscat-(3 A's)
2017	A-Levels	Pakistan School Muscat-(2 A*, 1 A, 2 B)
2021	B.E	NUST, H-12 (CGPA: 3.47)

WORK EXPERIENCE

06/2019	07/2019	Internship at Al SAFWAH Engineering and trading LLC
The company was mainly focused on making of chemicals, providing disinfecting solutions for its customers. I used to visit different departments of the company and I experienced the operation of manufacturing practically.		
08/2020	09/2020	WWF-Pakistan
I learned about the environmental challenges faced at the global level. In addition, we raised awareness regarding the use of renewable resources for power generation.		

PROFESSIONAL & TECHNICAL SKILLS

Technical Skills	AutoCAD, P SPICE, Verilog, C,C++, LabVIEW, MATLAB
Soft Skills	Creative probelm-solving skills, good team-work skills
Domain	Control Systems,Power Electronics,Advanced Ctrl System
Domain	Pwr Syst Analysis&Design, Instrumentation&Measurement

ACADEMIC PROJECTS

Fault Detection of Actuators (10/2020 - Present)
Wind Direction Detector(using digital logic design)
Smartphone controlled Alarm clock(AVR microcontroller)
Hospital Management System(C++), NUST 3D Map(Using AutoCAD)
Controlled liquid monitoring using IoT(Node MCU),Controller Design Using LQR

Achievements

- 1)Award of Scholarship at PSM:I received scholarship due to 1st position at AS-level, with 50% fee waived off for one full year
- 2) Completed a one-day workshop of Foundations in Design Thinking, Telenor

Community Involvement

- 1) I was the Headboy of my College, and I used to represent my college at Ceremonies and Events
- 2) Marketing Executive of IEEE and ACM society: I was responsible to implement the marketing strategy of the events in society. I have done voluntary work in events like IoT week, Wie collaboration etc

Extra Curricular Activities

- 1) Won the semi-finals of Tug of War during SEECS sports gala 2020.
- 2) Table-tennis winner in Annual sports gala at my college



Muhammad Mubashir Ahmed

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LinkedIn profile www.linkedin.com/in/muhammad-mubashir-ahmed-51896a199

Career Objectives

Growing and enhancing my skills set and/by adding value to my company through innovation, creativity, problem-solving and trouble shooting by working in an optimistic organizational culture.

EDUCATION

2021	BEE	NUST (Seventh Semester, CGPA : 2.76)
2017	A Level	Pakistan School Muscat (PSM), Sultanate of Oman - A, B
2015	O Level	Pakistan School Muscat (PSM), Oman - 1 A*, 2 A's, 2 B's

WORK EXPERIENCE

Oct, 2020	Jun, 2021	Founder & President-Professional Persona Forum (P2F)
We as a society of School of Electrical Engineering and Computer Science (SEECS), NUST work to polish the essential soft skills of students of SEECS that are necessary for a professional work environment.		
Sept, 2019	Aug, 2020	Youth Entrepreneural Society (YES)
Worked as the Executive (HR), Director (HR) and Head of Events to introduce young talents of School of Electrical Engineering and Computer Science (SEECS), NUST to the entrepreneurial world of Pakistan.		

PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Matlab
Softwares	Simulink, AutoCad, LabView, PSpice, MS Office
Hardware	ESP32, AVR Microcontroller
Soft Skills	Marketing, Public Speaking, Leadership

ACADEMIC PROJECTS

Smart Microgrid Energy Management System (Final Year Project)
Super Store Management using C
Wind Direction Detector using Digital Logic Design
Smart Phone controlled Alarm Clock using AVR Microcontroller

Achievements

- Stood 1st in School, 26th in Islamabad and 92nd in Pakistan in the International Kangaroo Mathematics Contest (IKMC) 2013
- Stood 2nd in Speak Up 1.0 and Speak Up 2.0(Speech Competitions held at University)

Community Involvement

Member of Speakers Pool, SEECS
Project Insaniyat (2017)

Extra Curricular Activities

- Basketball Captain at School
- Cricket
- Soccer
- Jogging

Muhammad Faraz UI Abrar

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Career Objectives

A reliable ,motivated and co-operative Electrical Engineer who is always eager to learn new things to their depth and work hard to handle upcoming challenges by applying acquired skills especially in the domain of Communication, Networking and IOT, and has convincing Interpersonal skills.



EDUCATION

2021	BEE	SEecs, NUST
2017	FSc	PUNJAB COLLEGE, BLUE AREA Islamabad.
2015	Matric	Islamabad Model College of Boys



WORK EXPERIENCE

02/2020	Present	Information Processing & Transmission(IPT) Lab SEecs
• Research and Development of a Device to Device (D2D) Mobile Ad-hoc Network on Android using Bluetooth Low Energy (BLE) and WiFi-Direct.		



PROFESSIONAL & TECHNICAL SKILLS

Programming	C++, Java, MATLAB, Python and Android
IoT & Networking	WiFi, WiFi-Direct, Bluetooth Low Energy (BLE)
Hardware	ATmega32, FPGA
Simulations	PSpice, Proteus, Xilinx, Atmel Studio



ACADEMIC PROJECTS

- Device to Device (D2D) Communication Ad-Hoc Network on Android using BLE and WiF-Direct
- Garment Reconstruction using Color Coded Technique for Feature Matching
- Real Time Smart Traffic Management system using ATmega 32
- Real time visualization & monitoring of Motion and Temperature via MPU 6866

Achievements

- All Pakistan NUST Table Tennis Champion
- NUST H-12 Table Tennis Tournament Winner

Community Involvement

- Interviewed various organizations for Communication Skills Project
- Participated in NUST Olympiad and various E-gaming tournaments

Extra Curricular Activities

- Table Tennis
- Dota 2

Muhammad Talha

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Career Objectives

A reliable Electrical Engineer looking forward to help huan community by gaining the insight knowledge of Communication, IoT and Embedded Tech.



EDUCATION

2015	Matriculation	F.G Boys Secondary School Mehfooz Road RWP
2017	Pre-Eng	F.G Sir Syed College The Mall Road RWP
2021	BEE	School of Electrical Engineering and Computer Sciences



WORK EXPERIENCE

Mar 2020	Present	IPT Lab Seecs, Nust
Development of D2D heterogeneous network for Disaster managment using Bluetooth Low Energy(BLE) and Wi-Fi		



PROFESSIONAL & TECHNICAL SKILLS

Programming	Java, Python, C++, C
IoT/Communication	Bluetooth Low Energy(BLE), Wi-Fi, Wi-Fi Direct
Hardware	Atmega32, Arduino, FPGA
Simulation	Matlab, Atmel Studio, Xilinx



ACADEMIC PROJECTS

- Design of D2D Heterogeneous Network For Disaster Management using Ble and Wi-Fi
- Garment Reconstruction using Color Coded technique for Feature Mapping
- Real Time Smart Traffic management using Atmega16

Muhammad Salman Afzal

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Career Objectives

Deterministic and passionate individual, proficient in hardware circuits design using Verilog or System Verilog and currently working on Verification of RISC-V based designs. I've also worked on embedded microcontrollers like ARM. My goal is to bring the semi-conductor industry to our country and make it independent. I hope to work in a friendly yet competitive environment that enables you to do more.

EDUCATION

'21	BS Electrical	National Institute of Sciences & Technology, Islamabad
'17	FSc	Punjab College of Science, Faisalabad
'15	Matric	Divisional Public School & College, Faisalabad

WORK EXPERIENCE

June'19	Aug'19	Summer Intern I RISC Lab, SEECS, NUST
--Learn about Verilog as Hardware Descriptive Language --Implement general Hardware problems in Verilog --Learn about Hardware designing of RISC-V ISA --Implementing a general purpose parameterized RISC-V core in Verilog and		
Sep'19	Sep'20	Freelancer I Fiverr
--Work related to Computer Architecture of MIPS and RISC-V ISA --Digital Logic and System Designing in Verilog and SystemVerilog --Work closely with clients to collect requirements and ensure quality		

PROFESSIONAL & TECHNICAL SKILLS

Programming	Verilog, SystemVerilog, Python, C/C++, MATLAB, Arduino
Dev. Tools	Quartus, Modelsim, Git, Multisim, Proteus, Logisim
Boards	Altera DE1, Arduino(UNO, DUE-M3), NodeMCU, STM32
Soft Skills	Problem Solving, Team Work, Self Motivation, Reliable

ACADEMIC PROJECTS

- RISC-V Core in Verilog
- FreeRTOS Simulation of Self-Navigating Vehicle
- Suspension System of Vehicles in MATLAB
- Home Automation System using ARM M3
- 3D Model of NUST in AutoCad
- Banking Management System in C++ using OOP

Achievements

--2nd Position I FSc. BISE Faisalabad

--3rd Position I Matric BISE Faisalabad

Community Involvement

--Volunteer I Floods

--Summer Internship I Akhuwat Foundation, Faisalabad

Extra Curricular Activities

--HR Director I NUST Student Forum, SEECS

--Admin Executive I NUST Robotics Club

--Marketing Executive I Youth Entrepreneurial Society, SEECS, NUST

--HR Executive I TABA Youth Chapter, NUST

Nayab Tajved

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LinkedIn profile [Nayab Tajved](#)

Career Objectives

To be a part of a stable organisation where I can create impact on society and our community through effective policy making. Furthermore, to enhance my problem solving skills and create effective workflow between organisations and systems.

EDUCATION

2021	BE EE	SEECS, NUST H12, Islamabad.
2017	F.Sc	APSACS, Hamayun Road, Rwp.
2015	Matric	Bahria Foundation College, Westridge, Rwp.

WORK EXPERIENCE

June '19	April '20	TUKL-NUST R&D Center
Research Intern - Studied Deep Learning and its applications, automated the task of downloading videos from 850+ individuals to curate a dataset for Urdu-speaking people, got hands-on exp. of various CNN architectures.		
July '20	Present	Upwork
Freelancing - Completed different projects ranging from designing and creating tutorials, proofreading/editing to working on embedded systems based projects.		

PROFESSIONAL & TECHNICAL SKILLS

Programming	Python, Matlab, C/C++
Machine Learning	PyTorch, Tensorflow, OpenCV, CNNs, Pandas
Software	AutoCAD, Atmel, FreeRTOS, EAGLE
Misc.	MS Office, Version Control using Git, Linux, Video Creation

ACADEMIC PROJECTS

- Cardiac - Smart Heart Rate Monitoring System
- Smart Home Management System
- Disaster Management System using FreeRTOS
- Music Library with Optimised Searching Algorithm

Achievements

I can raise and lower my anxiety at will, how's that?

Community Involvement

- Volunteer at blood donation Camps
- Volunteer at SOS Village, Soan Campus
- Collected funds under the Insaniat Project

Extra Curricular Activities

- Runner-Up in WWF Environmental Contest
- Participated in National Electronics Olympiad
- Chef Course from PC, Rawalpindi
- Other interests include economics, psychology and international relations



Neha Sultan

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Career Objectives

I am an avid reader/writer and I often foster animals. I love working with embedded systems design and data science. My goal is to design human-centric systems while implementing the best practices of industry.

→ EDUCATION

2017 BEE SEECS, NUST
2015 FSc Pre Eng APSACS, Humayun Rd Campus
2013 Matriculation APSACS, Westridge Campus

→ WORK EXPERIENCE

June 2018 Aug 2019 RESEARCH INTERN at SIGMA Lab, SEECS
PORTABLE EEG HEADSET-
- EEG Data Analysis and Pre-Processing
-Data Transmission for processing EEG Signals

June 2019 July 2019 CONTENT WRITER Plantiza National Incubation Centre
Wrote grants for various competitions
Worked on Growth Hacking
Managed social media accounts

→ PROFESSIONAL & TECHNICAL SKILLS

Designing & Simula: Quartus, Xilinx,MultiSim, AutoCAD, Proteus, Mbed Studio
Programming Langu: C/C++, Python, Verilog HDL
Computer Software: Visual Studio, MATLAB,Atmel Studio, Arduino IDE
Online Graphic/Pres: Canva , Prezi, MS Power Point

→ ACADEMIC PROJECTS

Performance Analysis of Synthetic Data Generation Techniques for Future Wireless Networks- FYP
Smart Waste Management System with NodeMCU
Disaster Management Sytem with Free RTOS on STM32
STRAY – an Exo-Planet Classifier for NASA's Keppler Mission

Achievements

Rising Talent AI Boot-Camp SIGMA Lab | June 2018

German Language Certification- level A1

Community Involvement

Animal Rescuer

Women Rights Activist with Women Democratic Front

Project Insaaniyat - Chadar NUST | 2017 (2nd Position)
- Helping out the less fortunate
- Raising Funds
- Organized a Food Drive with Muniba Mazari

Extra Curricular Activities

EXTERNAL RELATIONS EXECUTIVE at NUST Literary Club

STAGE TECHNICIAN at NUST Dramatics Club



Shaheer Sajid

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Career Objectives

An engineer seeking to gain employment with a company or institution that offers a consistently positive atmosphere to learn new technologies and implement them for the betterment of the business. My partular areas of interest are SoC design, soft processor design and FPGA based applications. Moreover I am also interested in IOT and embedded systems design. I feel I can give my best in the above mentioned fields

→ EDUCATION

2021 BS Electrical National University of Sciences and Technology (SEECS)
2017 A-Levels Lahore Grammar School
2015 O-Levels Lahore College of Arts and Sciences

→ WORK EXPERIENCE

06/2018 08/2018 Makistan ITU, Arfa Kareem Tower
Build a working prototype of an automated indoor gardening system.
See more at <https://tinyurl.com/ukzupwya>

06/2019 06/2020 Rapidev PVT Ltd, NSTP NUST
Design and fabricate down to the PCB an ARM based LoRa mesh networking system that remotely controls and monitors street lights.

→ PROFESSIONAL & TECHNICAL SKILLS

Hardware Soldering, PCB design and fabrication
Programming C/C++, Python, Verilog, MATLAB, Java
Boards AVR, Jetson, ESP8266, FPGA, ARM
Software Keil, Arduino, Atmel Studio, Eagle, Proteus, Quartus

→ ACADEMIC PROJECTS

Dynamic Obstacle Avoidance using Efficient Computer Vision
RISCV Soft Processor (<https://github.com/ShahmeerSajid/RISCV>)
Indoor plant monitoring and care system
Water Management System for Public Washrooms
OpenCV Maze Solving Algorithm (<https://bit.ly/308Ucs8>)

Achievements

Academic student of the year in O-Levels
Winner at ISSDC NASA 2016
Runner up Speed Soldeing FAST IEEE 2016
Winner PCB Design and Runner up Line Following GIKI NEO 2018

Community Involvement

Basic Science Skills Workshop at an under privileged school in collaboration with TABA youth Chapter NUST

Fund raising campaign and distribution of meals

Extra Curricular Activities

President NUST Robotics Club
Robotics event head NUST Olympiad
Robotics event head NUST Science BEE



Somia Nasir

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Career Objectives

To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills and to make use of my interpersonal skills to achieve goals of a company that focuses on customer satisfaction and customer experience.

→ EDUCATION

- 2021 BS. Electrical National University of Sciences and Technology (NUST)
- 2017 HSSC Army Public School and College System
- 2015 SSC Army Public School and College System

→ WORK EXPERIENCE

- 10/2020 Present The CDR Consultants
Technical Writer
- 08/2020 09/2020 Afiniti
Software Quality Assurance Intern

→ PROFESSIONAL & TECHNICAL SKILLS

- Programming lang C, C++, Dart (Flutter for App Development)
- Software MATLAB, LabVIEW, AutoCAD, Proteus, Atmel Studio
- Hardware Verilog HDL, FPGA
- Soft Skills EI, Interpersonal, Communication and Analytical skills

→ ACADEMIC PROJECTS

Sweat based Medical Diagnostic device [FYP], RISC-V Core implementation on FPGA, Solar Tracking System using Arduino , Smart Sprout: Automatic Plant Monitoring and Watering, Auto Home, Bank Management System using C++, Ludo (board game) using C, Matrix Calculator, 3D Map of NUST using AutoCAD

Achievements

Community Involvement

AWS Community Member Pakistan

Extra Curricular Activities

Badminton,
Table Tennis



Umair Raza

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Career Objectives

Seeking an electrical engineer position to utilize my expertise in the field of electrical engineering and learn innovative skills.

→ EDUCATION

- 2021 BEE National University of Science and Technology, Islamabad
- 2017 Pre-Eng Government College University, Lahore
- 2015 Matric Government High School Chauburji Gardens, Lahore

→ WORK EXPERIENCE

- 07/2019 08/2019 Descon Engineering Limited
During my internship, my task is to make excel sheets of tenders relevant to the company. Moreover, i learned the whole process of bidding and major contents of a bid.
- 07/2018 08/2018 Akhuwat Foundation
During my internship period, i visited various garments markets of Lahore for clothes collection drives and awareness drives.

→ PROFESSIONAL & TECHNICAL SKILLS

- Electrical Engineeri MATLAB
- Electrical Engineeri Proteus
- Management MS Office
- Graphic Designing Adobe Illustrator, Adobe Photoshop

→ ACADEMIC PROJECTS

Digital Election System in C- language (1st Semester)
Game on unity developer (2nd Semester)
Digitized Clock (3rd Semester)
Outdoor Map Building for Autonomous Navigation (Final Year Project)

Achievements

Community Involvement

Project Insaniyat (2017)
Internship at Akhuwat Cloth Bank (2018)

Extra Curricular Activities

Graphic Designing
Mentor Graphics-IEEE
Executive Graphics-NEC

Usman Khawar

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Career Objectives

An independent and self-motivated electrical engineer with excellent academic and co-curricular achievements. With proven technical and interpersonal skills, looking to work in a growth based atmosphere with an emphasis on self-improvement.

EDUCATION

2021	B.EE	National University of Sciences & Technology
2017	FSc.	Al-Aqeeq International College
2015	Matric	Al-Aqeeq International School

WORK EXPERIENCE

Aug,2019 Sep,2019 DELTA
Installation of underground power transmission cables.
Collaborated in a mega-project of nine grid stations' expansion under Saudi Electricity Company (SEC).

Apr,2019 Jul,2019 Rohde & Schwarz
Conducted research to improve filter testing and measurements of amplifier non-linearities.
Won first position for the presented solution and research.

PROFESSIONAL & TECHNICAL SKILLS

Circuit Design	Proteus, Simulink, Advanced System Design, Multisim.
Programming	Python, R, MATLAB
Technical Writing	Report writing, Research Writing, Literature Review
Soft Skills	Presentation Skills, Project Management, Risk Assessment.

ACADEMIC PROJECTS

Real-time System for Deforestation Detection using Machine Learning on low-powered Embedded Nodes.
Smart Street Lights System based on Vehicle movement.
Measuring the Nonlinearities of RF Amplifiers and Filter Testing using Vector Network Analyzer.



Usman Ahmad Siddiqui

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Career Objectives

To obtain a challenging position in a fast moving and innovative market where I can leverage my strong leadership experience and academic skills to effect change, seek impact, and improve myself by learning alongside brilliant people and great brands.

EDUCATION

2021	SEECs	National University of Sciences and Technology (3.48)
2017	A Levels	Super Nova College (4 A*s)
2015	O Levels	Super Nova College (7 A*s and 3 As)

WORK EXPERIENCE

08/2020 Present IoT Lab SEECs, NUST
Responsible for research into cutting-edge sensor technologies and building working project prototypes.

06/2019 07/2019 Oil and Gas Development Company Limited (OGDCL)
In charge of a team of 3, assigned to the wire logging and data collection unit.

PROFESSIONAL & TECHNICAL SKILLS

Programming/ Office	C/C++, Python, MATLAB, Word, PowerPoint, Excel, UX/UI
Soft Skills	Critical Thinking, Conflict Resolution, Empathetic Listener
Embedded Systems	FreeRTOS, Data Structures and Algorithms
Artificial Intelligence	Deep Learning and Machine Learning

ACADEMIC PROJECTS

- 1- Automated Multisensor Board for ML and IoT Enabled Livestock Monitoring (FYP).
- 2- Object Edge recognition using AVR Microcontrollers
- 3- Library Management System in C++
- 4- Water Quality Monitoring and Control System

Achievements

Recipient of Semester Scholarship (2018-2020)
High Achiever SEECs (2018 & 2020)
Best Presentation Award - Rohde & Schwarz (2019)
Dean's Appreciation Certificate - Academic Excellence (2018)
Football Gold Medalist (2014)

Community Involvement

NCSC Blood Donation Drive (2019)
TABA Clothes Donation Drive (2018)
Project Insaniyat (2017) - Team Member

Extra Curricular Activities

Unilever Talent Hunt'20 - National Finalists
NUST Archery Club - Director Security
NUST Technical Amusement Club - Director Establishment & Protocol
SEECs OpenHouse'18 - Executive Judges

Achievements

Winner I Hatch-8 Pre-Incubation, NSTP, NUST
Pakistan Finalist I Microsoft Imagine Cup 2021
2nd Runners Up I HULT PRIZE 2020, NUST

Community Involvement

Volunteer I Project Insaniyat
Class effort to carry out Donation Drive for disadvantaged communities.
Volunteer I WWF Pakistans
Raised climate change and wildlife conservation awareness.

Extra Curricular Activities

Working on building a Startup.
Currently in pre-incubation stage at NSTP, NUST, H-12, Islamabad
Fantasy Premier League Discord Community
Languages: English, Urdu, Spanish
Eager to learn many languages



NUST School of Electrical Engineering
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