



**NUST**  
School of Electrical Engineering  
& Computer Science



Department of  
**Electrical Engineering**

Graduate Booklet  
**BEE** Bachelor of  
Electrical  
Engineering  
Class of **2022**



# Contents

01.

NUST SEECS .....

3

02.

Department of Computing (DoEE).....

4

03.

Message from Head of the Department.....

4

•

Introduction to DoEE.....

5

•

DoEE Faculty.....

7

04.

Bachelor of Electrical Engineering.....

9

•

BEE Overview.....

9

•

BEE Course Outline .....

10

•

BEE Student Resume.....

12



## 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 Associate Dean

### Prof. Dr. Hassaan Khaliq Qureshi



The much-awaited time has come for yet another batch of engineering graduates of EE program to enter the real world. I would like to congratulate all our graduating students at this moment of accomplishment, which has come after the successful culmination of four years of hard work and studies. 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.

I wish you all well, and earnestly hope that the future holds promise for you. I believe that all obstacles can be overcome through intrinsic motivation to perform better. 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 imbuing 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.

### 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.

## Labs 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)
3. Advance Electronics Lab
4. DSP & Comm Sys Lab
5. Control Sys Lab
6. Electro-Mech & Power Sys Lab
7. Microwave Devices and Antenna

### Research Labs

1. WISNET Lab (PG Block)
2. CEFAR Lab (PG Block)
3. CONNEKT Lab (GRC)
4. AMMSG 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)
12. Anechoic Chamber
13. EMC/EMI Lab
14. Microwave research lab (MRL)
15. Microwave Devices & Integrated Circuit lab (MDIC)
16. PCB Lab

## Faculty

At the Department of Electrical Engineering, we presently have a total of 48 faculty members. Of these 41 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.



Associate Dean Dr. Hassaan Khaliq Qureshi Phd - City University London, UK		
Dr. M. Shahzad Younis PhD - University Technology Petronas, Malaysia	Dr. Khawar Khurshid Phd. Michigan State University USA	Mr. Nasir Mahmood MS-BUAA, China
Dr. Ahmad Salman Phd-University of Manchester, UK	Mr. Arshad Nazir MS-NUST Islamabad, Pakistan	Dr. Kamran Zeb PhD - Pusan National University, Bu-san, South Korea
Dr. Arbab Latif Phd-King Fahd Universi-ty of Petroleum and Minerals, Dhahran, KSA	Dr. Rehan Ahmed Phd-University of British Columbia, Canada	Mr. Muhammad Imran Abeel MS-NUST Islamabad, Pakistan
Dr. Wajid Mumtaz Phd-University Teknologi, Malaysia	Dr. Wajahat Hussain Phd-University of Zaragoza, Spain	Dr. Hina Gohar PhD - Universitat Autònoma de Barcel-ona, Spain
Dr. S. M Hassan Zaidi Phd-University of South Florida, USA	Dr. Syed Ali Hassan Phd-Georgia institute of Tech, USA	Dr. Umar Khan PhD - King Fahd University of Petro-leum and Minerals, Saudi Arabia
Dr. Salman Abdul Ghafoor PhD - University of Southampton, UK	Dr. Muhammad Imran Sungkyunkwan University, Suwon, South Korea	Dr. Sajjad Hussain Phd-Dublin University, Ireland
Dr. Huma Ghafoor Phd-Univeristy of Ulsan South, Korea	Dr. Rizwan Ahmad PhD-Victoria University, Australia	Dr. Numan Khurshid PhD - LUMS Lahore
Mr. Yasir Iqbal MS - University of Gävle, Sweden	Dr. Ammar Hasan Phd-Imperial College London, UK	Dr.Syed Taha Ali PhD - University of New South Wales, Australia
Dr. Usman Khan Phd-University of Roma Italy	Dr. Usman Ali Phd-Georgia institute of Tech, USA	Dr. Farid Gul PhD - BUAA, China
Dr. Rana Iftikhar Ahmad PhD - University of Versailles, France	Dr. Muhammad Latif Anjum PhD- Politecnico di Torino, Italy	Dr. Rameez Hayat Phd-University of Munich, Germany
Dr. Mansoor Asif PhD - Hanyang University, South Korea	Engr. Shakeel Alvi MS GWU, USA	Dr. Jawad Arif Phd-Imperial College London, UK
Dr. Hasan Arshad Nasir Phd-University of Melbourne, Australia	Ms. Neelma Naz MS - EME, NUST Pakistan.	Dr. Rizwan Khalid Phd-University of Delaware, USA
Dr. Mohaira Ahmad PhD - NUST, Pakistan	Mr. Habeel Ahmad MS-Michigan State University, USA	Dr. Ahmed Rasheed Phd-University San Yat Sen, China
Engr. Tassawar Hussain Kazmi MS - North China Electric Power Univer-sity, China	Engr. Ahsan Azhar MS- University of GAVLE, Sweden	Dr. Zubair Rehman PhD- Palmerston North, New Zealand
Dr. Mustafa Tahseen PhD - Concordia University Canada	Dr. Farooq Ahmad Tahir PhD - University of Toulouse France	Dr. Mansoor Ali Khan Phd-University Sydney, Australia
Dr. Hafsa Iqbal PhD - University of Genoa, Italy and Carlos III University of Madrid, Spain	Dr. Noshewan Khan PhD - Politecnico Di Torino Italy	Dr. Abid Rafique PhD - Imperial College, London, UK

# Bachelors 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 founda-tions which are essential for engineering major. These include mathematics, basic sciences, com-puters, fundamental concepts in analog and digital electronics and their practical skills. The cur-riculum 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 engi-neering 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 Commu-nication 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 knowl-edge according to the needs of the industry.

Career Outcomes:

## 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 im-plemented in those organizations. It also allows the students to gain practical experience in the own field of en-gineering 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	HU-100	English	2	0	1st
2	CS-114	Fundamentals of Programming	2	1	
3	HU-107	Pakistan Studies	2	0	
4	MATH-101	Calculus and Analytical Geometry	3	0	
5	ME-105	Workshop Practice	0	1	
6	PHY-102	Applied Physics	2	1	
7	*EE-111	Linear Circuit Analysis	3	1	
Total CHs			14	4	18
1.	*CS- 212	Object Oriented Programming (OOP)	3	1	2nd
2.	HU-101	Islamic Studies	2	0	
3.	MATH-121	Linear Algebra and ODEs	3	0	
4.	ME -109	Engineering Drawing	0	2	
5.	HU-109	Communication Skills	2	0	
6.	*EE-211	Electrical Network Analysis	3	1	
Total CHs			13	4	17
1	MATH-232	Complex Variables and Transforms	3	0	3rd
2	ME-102	Thermodynamics	2	0	
3	EE-221	Digital Logic Design	3	1	
4	EE-215	Electronic Devices and Circuits	3	1	
5	ME-100	Engineering Mechanics	3	0	
Total CHs			14	2	16
1.	EE-232	Signals and Systems	3	1	4th
2.	MATH-243	Vector Calculus	3	0	
3.	EE-241	Electromagnetic Field Theory	3	0	
4.	EE-222	Microprocessor Systems	3	1	
5.	EE-313	Electronic Circuit Design	3	1	
Total CHs			15	3	18
1	EE-330	Digital Signal Processing	3	1	5th
2	EE-260	Electrical Machines	3	1	
3	MATH-361	Probability & Statistics	3	0	
4	HU-212	Technical & Business Writing	2	0	
5	EE-351	Communication Systems	3	1	
Total CHs			14	3	17

1.	MATH-351	Numerical Methods	3	0	6th
2.	EE-371	Linear Control Systems	3	1	
3.	EE - 383	Instrumentation and Measurements	3	1	
4.	EC/EE - XXX	Elective-I	3	X	
5.	EC/EE - XXX	Elective-II	3	X	
Total CHs			15	2+X	17+X
1.	OTM-455	Engineering Project Management	2	0	7th
2.	ECO-130	Engineering Economics	2	0	
3.	EE-498	Senior Design Project-I	0	2	
4.	EC/EE - XXX	Elective - III	3	X	
5.	EC/EE - XXX	Elective-IV	3	X	
Total CHs			10	2+X	12+X
1.	HU-222	Professional Ethics	2	0	8th
2.	EE-499	Senior Design Project-II	0	4	
3.	XX-XXX	University Elective	3	X	
4.	EC/EE - XXX	Elective-V	3	X	
5.	MGT-271	Entrepreneurship	2	0	
Total CHs			10	4+X	14+X
Overall CHs			105	24+X	
Grand Total (Credit Hours)			(129+X)**		

BESE

# Student Resumes

	Student Name	Page no.
1	Karan Naveed	14
2	Muhammad Hamza	15
3	Aamna Arshad	16
4	Abdul Moeed	17
5	Abdul Sami	18
6	Abdul Haseeb	19
7	Ahmad Rizwan	20
8	Ahmed Ali	21
9	Ali Abdul Rehman	22
10	Alina Irfan	23
11	Ameer Moavia	24
12	Arooba Azhar	25
13	Muhammad Awais	26
14	Ayesha Shahid	27
15	Ayesha Zahid	28
16	Azlan Ikram	29
17	Fahad Sohail	30
18	Izzha Ikram	31
19	Ahmad Mustafa	32
20	Iqbal Hussain	33
21	Shehryaar Ali	34
22	Zainab Jamil	35
23	Aeimen Fatima	36
24	Ahmed Gulraiz Yar Khan	37
25	Babar Mustafa	38
26	Muhammad Abdur Rehman Wasti	39
27	Ayesha Zahid	40
28	Mahnoor Arshad	41
29	Malik Aqib Zahoor Awan	42
30	Muhammad Saad Khan	43
31	Muhammad Hamza Shakoor	44
32	Muhammad Bilal Elahi	45

	Student Name	Page no.
33	Syed Muhammad Nasir	46
34	Safwan ullah Khan	47
35	Syed Jawad Raza	48
36	Muhammad Moeed Ashfaq	49
37	Adnan karim	50
38	Mahad Wasique	51
39	Mughees Qasim	52
40	Muhammad Bin Azhar	53
41	Muhammad Hamza Munir	54
42	Muhammad Hamza Nisar	55
43	Sara Rauf	56
44	Syed Mutahir Ali	57
45	Muhammad Riyyan Khan	58
46	Muhammad Asad Khalil Rao	59
47	Syed Sheheryar Umair	60
48	Syed Talha Imam	61
49	Muhammad Mazoon Mohsin	62
50	Huzaifa Saleem	63
51	Muhammad Ahmad Aljeelani	64
52	Rehman Afzal	65
53	Ehsan Latif	66
54	Fahad Waheed	67
55	Ahmad Faizan Butt	68
56	Faraz Amjad	69
57	Farheen Fatima	70
58	Fatima Sohail	71
59	Hajira Shafqat Bazaz	72
60	Hammad Ali	73
61	Hamza Bin Mazhar	74
62	Haris Ali	75
63	Insha ur Rehman	76
64	Iram Fatima Aulakh	77
65	Jibran Zia	78

	Student Name	Page no.
66	Kainat Khalid	79
67	Khurram Zia	80
68	Khuzaeymah Bin Nasir	81
69	Laiba Asim	82
70	Muhammad Junaid Anees	83
71	Mahmood Ahmad Khan	84
72	Makhdoom Tayyab Altaf	85
73	Maryam Mahmood	86
74	Mian Ahmed	87
75	Abdul Moeed	88
76	Mohaimen Muntaha Fatimah	89
77	Muhammad Zain Farooq Gill	90
78	Muhammad Ahmed Mansoor	91
79	Muhammad Ali Sajid	92
80	Muhammad Asad Imran Rafique	93
81	Muhammad Asad Khalil Rao	94
82	Muhammad Danish	95
83	Muhammad Ismail	96
84	Muhammad Khalil	97
85	Muhammad Soban	98
86	Muhammad Wahaj Nadeem	99
87	Muhammad Hassaan	100
88	Muhammad Usman	101
89	Nauman Yasin	102
90	Muhammad Zeeshan	103
91	Saad Salman	104
92	Saad Khalil	105
93	Mohammad Nouman Bin Faheem	106
94	Rushna Shah	107
95	Saad Bin Muhammad	108
96	Sahar Zahid	109

	Student Name	Page no.
97	S Ahmad	110
98	Shaharyar Akmal Chaudhry	111
99	Shanzay Javed	112
100	Sidra Amin	113
101	Syed Ali Hasany	114
102	Talha Khalid	115
103	Nawaz	116
104	Muhammad Umair	117
105	Usama Ahmad	118
106	Usama Arif	119
107	Uswa Syed	120
108	Zainab Sajjad	121





# Karam Naveed

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## Career Objectives

An Electrical Engineering graduate seeking to establish a long term career in a company where I may utilize my Embedded systems engineering skills and knowledge to be an effective embedded systems developer and inspiration to those around me.

## EDUCATION

2022	Bachelors	Electrical Engineering, SEECS, NUST
2018	FSc	Punjab College of Science, Faisalabad
2016	Matric	La Salle High School, Faisalabad

## WORK EXPERIENCE

1/6/2021	1/6/2022	Integrated Circuits Design Lab
Worked as team member of a research team aimed at the design of an AI Co-processor for edge inference.		
1/7/2019	1/9/2019	Pakistan Civil Aviation Authority
Internship at Electrical/Mechanical and CNS departments at Faisalabad International Airport.		

## PROFESSIONAL & TECHNICAL SKILLS

Embedded System	Embedded C, C/C++, Assembly, Linux environment
Digital Systems	Verilog HDL, VHDL, RISC-V ISA
Software Tools	Quartus Prime, Arduino IDE, Proteus, Logisim
Hardware	Intel FPGAs, stm32 Board, Arduino board, Atmel 16A

## ACADEMIC PROJECTS

- Artificial Intelligence Coprocessor for Edge Inference on FPGA.
- Water Stress detection system for Plants using esp8266 and Arduino.
- Library Management System using C Programming Language.
- Physics Simulator using C++ Programming Language.

### Achievements

- Won Merit scholarship in SSC Exams
- Awarded by Laptop in recognition of Academic Achievement

### Community Involvement

- Volunteered to work with Act of Kindness to conduct food drives
- Conducted Food Donation Drive with Chaddar Organisation, NUST
- Volunteered to work with The Volunteer Society to make an IT Lab
- Attended Community Service Learning Course

### Extra Curricular Activities

- Worked as HR team member in NUST Excursion Club
- Worked as Social Media team member at NUST Archery Club
- Participated at the school level Table Tennis Tournament



# Muhammad Hamza

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LinkedIn profile www.linkedin.com/in/mhamza1717

## Career Objectives

An Electrical Engineer with interest and expertise in electronics , PCB designing and Simulation softwares like Proteus and Simulink. Interested to further explore the electronics, power system and protection fields whilst being a leader and a team player

## EDUCATION

2022	Electrical En	National University of Science and Technology
2017	Fsc (Eng)	Sheikh Zayed Public School and College
2015	Matric (Med)	Sheikh Zayed Public School and College

## WORK EXPERIENCE

2021	2021	Smartagri tech lab- SINES Intern
2020	2021	TABA Student Chapter NUST Deputy Director Decor

## PROFESSIONAL & TECHNICAL SKILLS

Electronics	Altium Designer
Software Language	C/C++
Proficient Languages	German/ English
Editing and Designin	Adobe Illustrator

## ACADEMIC PROJECTS

- EV Battery Pack: Building 1 KW Battery Pack using Active Battery Management System
- Modular current (non-invasive) and voltage sensing device
- Bank Management System
- Cricket Score Board
- Lie Detection Device

### Achievements

- Awarded laptop on merit basis
- Won Run for the stars event at NUST olympiad
- Awarded participation Certificate on participating in Toyota Dream Car art contest

### Community Involvement

- Set-up a library in an orphanage
- Volantered at sheikh zayed hospital lahore

### Extra Curricular Activities

- Football, badminton, sketching/drawing, Cricket





Aamna Arshad

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Career Objectives  
Motivated and dedicated student with good work ethics and creative abilities. Seeking to apply my skills as an embedded and control systems engineer and explore different ways to improve and excel.

→ EDUCATION

2022 Bachelor of I National University of Science and Technology  
2018 HSSC Jinnah Education System  
2016 SSC Jinnah Education System

→ WORK EXPERIENCE

07/2021 09/2021 National Engineering and Scientific Commission (NESCO)  
1) Worked with DSPIC microcontroller.  
2) Learnt and worked with different PWM techniques.  
3) Worked with Electronic Speed Controller (ESC)  
  
07/2021 06/2022 IC Design Lab (ICDL) , NUST  
1) Worked on prototyping and testing of various modules of different projects.  
2) Learnt PCB designing.  
3) Prototyping

→ PROFESSIONAL & TECHNICAL SKILLS

Prototyping Soldering, PCB designing  
Programming Arduino, STM32, C, C++, OOP, FPGA, ATMEGA  
Software MATLAB, Proteus, Kicad, LabView, Psipce, Visual Studio  
Designing AUTOCAD, GUI development

→ ACADEMIC PROJECTS

1) AutoMotor- A Multifeatured Multichannel DC Motor Controller (hardware designed on DSPIC microcontroller)  
2) Accelerometer based measurement of dihedral angles (hardware designed on STM 32, arduino)  
3) Modern Aqua-Saving Ablution Helper (MASAH)  
4) 4-bit Microprocessor

Achievements

- 1) Scholarship at SSC level (FBISE) -(2016-2018)
- 2) Scholarship at HSSC level (FBISE)- (2018-2022)
- 3) Successful completion of "Positive Psychiatry and Mental Health" on Coursera

Community Involvement

- 1) Conducted a ration drive to help the needy families in Ramadan.
- 2) Donated sewing machines for the families to help them make living.

Extra Curricular Activities

- 1) Conducted a workshop " RC Rush" with Nust Robotics Club for the junior batch of NUST.
- 2) Hobbie electronics and tinkering



ABDUL MOEED

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Career Objectives  
Electrical Engineering graduate of National University of Sciences And Technology (NUST) seeking jobs/internships to utilize my skills and passion in Electrical Engineering. Technologically adept, offering experience with programming languages, digital system designing and advanced computer skills. Bringing forth a positive attitude and the willingness and motivation to learn new programs.

→ EDUCATION

2022 Electrical National University Of Sciences And Technology , NUST  
2018 F.Sc Islamia College University Peshawar, Peshawar  
2016 Matric Peshawar Model School Boys 2 , Peshawar

→ WORK EXPERIENCE

07-06-21 09-08-21 RISC Lab SEECS  
Worked on Real-Time Unmasking of Masked Faces using Deep Learning on Edge Devices. The project involved Deep Neural Network optimizations and its implementation on edge devices for real-time inference.

→ PROFESSIONAL & TECHNICAL SKILLS

Embedded System Digital System Designing on FPGA in Verilog.  
Programming C and C++ programming languages  
Circuit Designing Proteus and MutiSim  
Machine Learning Keras, Tensorflow

→ ACADEMIC PROJECTS

Real-time Unmasking Of Masked Faces implemented on edge.  
OCR based Speech Synthesis System using LabView.  
Database for Students using C++

Achievements

- 11th position in SSC examination 2016 Peshawar Board
- National Talent Schlarship (21000 Pkr)

Community Involvement

Worked as a volunteer in Ramzan After drive conducted by Chaddar

Extra Curricular Activities

- Football
- Sketching
- Gaming



# Abdul Sami

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## Career Objectives

To be a part of a company that indulges in professional growth which provides challenging and rewarding career while allowing me to utilize my knowledge and skills.



## EDUCATION

2022	Bachelors	National University of Sciences and Technology (NUST)
2018	F.Sc	Government Boys College Larkana
2016	Matric	Government Pilot Higher Secondary School Larkana.



## WORK EXPERIENCE

07/2021    9/2021    Pakistan Telecommunication Company Limited (PTCL)  
Worked as a technical side engineer under Regional General Manager.

06/2021    07/2021    University of Western Australia  
Research Skills fundamentals student and delivered 3-MT on in-cabin monitoring system in autonomous vehicles using mm-radars.



## PROFESSIONAL & TECHNICAL SKILLS

Technical	Python, C++, C, RISC V
Technical	Verilog HDL
Technical	MATLAB, Proteus, LabView, Multisim
Technical	Microsoft Office



## ACADEMIC PROJECTS

1. Remote Control Car Using Free RTOS.
2. University Management System.
3. Three Story Elevator Hardware and Proteus Simulation.
4. Secure (Encrypted) Serial Communication between two PCs using FSK.

### Achievements

Certificate of completion for PTCL Skill based internship program.

Certificate of completion for Research skills fundamental

### Community Involvement

Volunteered at Akhuwat Clothes Bank Karachi for organizing cloth collection drives in different universities and colleges to provide clothes to needy people.

### Extra Curricular Activities

1. Football
2. Table Tennis
3. Travel

# Abdul Haseeb

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## Career Objectives

Born and raised in the United Arab Emirates and currently pursuing a bachelor's degree in Electrical and Computer Engineering from NUST Islamabad. My final year project is titled "Asthma Monitoring using IoT and Deep Learning". I am quite intrigued by Artificial Intelligence and how it will shape our coming future. My main focus areas include: Machine Learning, Computer Vision, Healthcare and Well-Being. I am also very passionate about Environmental Conservation



## EDUCATION

2022    Bachelors    Electrical and Computer Engineering  
National University of Sciences and Technology



## WORK EXPERIENCE

July, 2021    To Aug    PTCL  
Electrical Engineering Intern – Quality Assurance Team  
• Took customer feedback and actively listened to their requests and complaints  
• Visited various sites of PTCL and ensured the quality standards and reported b



## PROFESSIONAL & TECHNICAL SKILLS

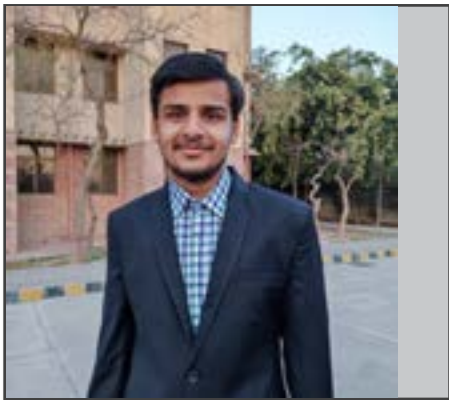
Software	OOP in C++, Machine Learning and Computer Vision
Software	Python, TensorFlow, Keras, NumPy, Pandas, scikit-learn
Management	Product and Project Management
Management	Teamwork, Leadership



## ACADEMIC PROJECTS

Asthma Monitoring using Deep Learning  
• Language used: Python. Used deep learning models (ANNs and CNNs) to detect cough sound and label the cough sound as problematic (asthmatic) or non-problematic (non-asthmatic)  
• Designed various sound filters to suppress noise





Ahmad Rizwan

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Career Objectives

Electrical engineer with strong academic knowledge seeking for technical and challenging job in order to gain practical experience and expand my learning and technical skills in the field of power electronics and control.

→ EDUCATION

2022	BEE	Electrical Engineering, SEECS NUST
2018	FSc	Punjab College, Faisalabad
2016	SSC	Blessing home high school

→ WORK EXPERIENCE

5/07/2021 3/9/2021 RESEARCH INTERN  
Worked as a Research Intern on Demand response of Thermal Appliances.

07/2019 08/2019 MANAGEMENT INTERN  
Helping children suffering from thalassemia.  
1- Telemarketing and effective marketing  
2- Data entry for blood donors  
3- Blood Donation camp

→ PROFESSIONAL & TECHNICAL SKILLS

Personal Skill	Critical Thinking, Leadership, Teaching, Punctual
Hardware skills	Multisim, Pspice, Proteus, MATLAB
Programming	C, C++, Verilog, Matlab, Simulink
Technical Skill	Circuit designing, PCB layout designing,

→ ACADEMIC PROJECTS

- 1- Demand response of Thermal Appliances (Final Year Project)
- 2- 12V DC to 220V AC Inverter (MATLAB)
- 3- Frequency Division Multiplexing
- 4- Speed Detection of Car
- 5- Income Tax System using C++ language

Achievements

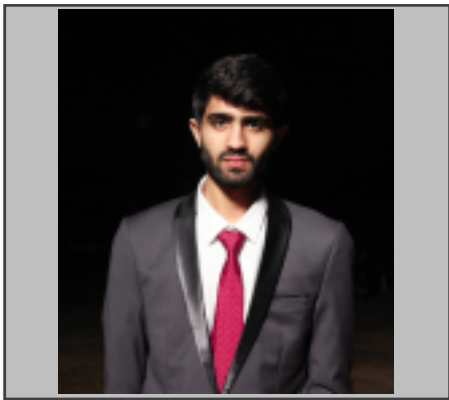
Laptop awarded for Academic Achievement by Government of Punjab (for securing 94% marks in Matriculation)

Community Involvement

- 1- Attended 6 Community Service Learning (CSL) Workshops
- 2- Aftar Dastarkhwan drive
- 3- Food Donation Drive

Extra Curricular Activities

- 1- Cooking
- 2- Reading Books
- 3- Playing Badminton



Ahmed Ali

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Career Objectives

Soon to be electrical engineer with experience as an hardware design intern. Possess the analytical abilities and technical skills necessary for engineering innovative designs and applications. Solid understanding of electrical engineering theory, industry-standard circuit design, testing tools and FPGA systems.

→ EDUCATION

2022	BEE	NUST
2018	Fsc	Punjab College of Science
2016	Matric	M.H sufi foundation School

→ WORK EXPERIENCE

6/2021 8/2021 Integrated Circuit Design Lab (NUST)  
worked on FPGA Implementation of Intel Labs for their Digital Design course and completed it successfully.

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

→ PROFESSIONAL & TECHNICAL SKILLS

Engineering	Verilog HDL
Engineering	Computer vision
Personal	critical thinking and team leading
Personal	Honesty and dedication to work

→ ACADEMIC PROJECTS

- Arduino/ C language ( Mesh Smart Home System)
- Image Processing ( connected components Base Algorithm)
- C++ (Simple Inventory Management System)
- Baby processor Implementation on FPGA
- Made a von neumann architecture based small processor in verilog HDL.

Achievements

- secured position in top 100 (63rd) among 70,000 NUST entry test applicants.
- Recieved Laptop from Shehbaz Shariff Youth initiative for high achievers.
- Got Full-Fee scholarship by Punjab College of Science in Higher Secondary Education for achieving high grades In Secondary level

Community Involvement

- Ran a successful blood donation drive for community service project
- Successful fund raising for repair and renovation of a community building

Extra Curricular Activities

- Gym
- Badminton
- web surfing to solve various problems
- Video Games and modding
- , Sci-Fi movies





# ALI ABDUL REHMAN

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## Career Objectives

An ambitious individual looking to make big strides in the rapidly evolving and changing world of technology. Looking forward to new challenges, adapting to each one differently, and constantly aiming to improve my skillset.

## EDUCATION

2022	BEE	National University of Sciences and Technology (NUST)
2018	FSc.	F.G. Degree College for Men, Wah Cantt
2016	Matric	HITEC School and College for Boys, Taxila Cantt

## WORK EXPERIENCE

07-21	09-21	RISC Lab
<ul style="list-style-type: none"><li>- Researched state-of-the-art techniques to ensure loss-less high-speed data acquisition</li><li>- Worked on STM Microcontrollers to collect, store and record data continuously.</li></ul>		
07-21	12-21	NESCOM
<ul style="list-style-type: none"><li>- Worked on a multi-channel Data Acquisition System</li><li>- Developed GUI for Data Acquisition System</li><li>- Utilised industry grade software for task completion</li></ul>		

## PROFESSIONAL & TECHNICAL SKILLS

C/C++/Python	Technical Skill
Embedded Systems	Technical Skill
Adapability	Soft Skill
Problem Solving	Soft Skill

## ACADEMIC PROJECTS

- Embedded Multi-Channel Data Acquisition System
- Hand Gesture Based Embedded TV Remote
- Complex Domain Matrix Solver Program (CODMAT)
- 4-bit Number Crunching Machine

### Achievements

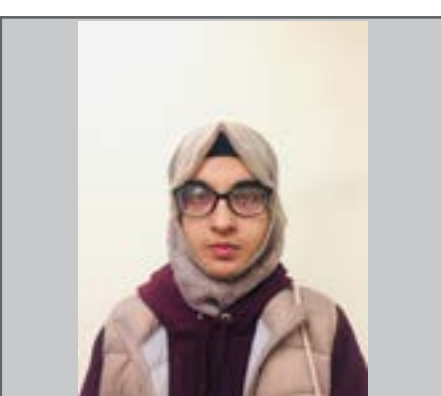
1. HULT Prize Regional Winner - 2021
2. L'Oréal Brandstorm - National Runner up - 2021
3. L'Oréal Brandstorm - National Finalists - 2022

### Community Involvement

- Floods: Co-founder
- Aiming to achieve a self-sustainable and selfless community by using technology integrated methods
  - Initiated and organized "NUST Food Bank" for the first time, providing 1000+ meals.
  - Coordinated the largest network of food drives inside NUST.

### Extra Curricular Activities

- Director Photography, Orientation NUST 2021
- Team Member Photography, Finding Innovative & Creative Solutions for Society (FICS), 2020
- Team Lead, Association for Computing Machinery (ACM), 2021



# Alina Irfan

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## Career Objectives

The paths of neuro-biology and engineering meet at a place where miracles can be made. It is this intersection that I am striving to reach, engineering solutions to biomedical challenges.

## EDUCATION

2022	BEE	NUST - CGPA 3.94
2017	A Levels	School for Contemporary and Islamic Learning - 5A* 1 A
2015	O Levels	School for Contemporary and Islamic Learning - 9 A*

## WORK EXPERIENCE

2021-07	To	2021-09
CureMD; FYP declared Young Inventor Program's award winning project from 800 applicants across Pakistan. I won the Master Young Inventor(1st) Position and was awarded a sponsorship, tuition fee waiver and paid internship.		
2021-03	To	2022-05
Neuroinformatics Lab NUST ; Working on EEG data to develop rehabilitative and assistive devices for disabled patients. I published a paper titled "Review of challenges associated with the EEG artifact removal methods", in Elsevier.		

## PROFESSIONAL & TECHNICAL SKILLS

Electronics	Circuit Designing
Machine Learning	PyTorch and TensorFlow
Robotics	Linux and ROS
Management	Leadership

## ACADEMIC PROJECTS

- Thought-to Text Translation Device (TTD); My FYP proposes a TTD based upon EEG data. It is a novel deep-learning framework designed to assist the disabled.
- Automation of EEG Diagnosis in collaboration with Military Hospital; I developed a RNN-LSTM model based on literature review and design architecture analysis

### Achievements

- Master (1st position) Youth Inventor Program at CureMD - project sponsorship and tuition fee waiver
- Published a paper in Elsevier

Bronze Medalist ; IKMC (International Kangaroo Mathematics Contest) 2011

### Community Involvement

- Food Donation Drives
- Teaching under-privlged children at the Master Ayub Park School, F-6 Islamabad.

### Extra Curricular Activities

- Badminton
- Food Business - Baker's Bench
- NUST Science Society- NSS ; hosted the Science Bee, NSS's flagship event



# AMEER MOAVIA

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## Career Objectives

An electrical engineering student with primary focus on embedded/digital system designs and machine learning. With meticulous approach towards work, looking forward to acquire and enhance my knowledge and skills in the said domain.

## EDUCATION

- 2022 Bachelors National University of Sciences and Technology, H-12, ISB.  
2018 HSSC Fauji Foundation College for Boys (FFCB).  
2016 SSC The Educators High School, The Mall Campus.

## WORK EXPERIENCE

- 07/2021 - 08/2021 Pakistan Telecommunication Company Ltd.  
- Compliance Testing of broadband equipment using TR-061 standard using Nokia HDM servers at QA department.  
- Optical Fiber Splicing.

- 07/2019 - 08/2019 World Wildlife Fund (WWF)  
A community based project to improve living conditions of animals at Islamabad Zoo.

## PROFESSIONAL & TECHNICAL SKILLS

- Programming C , C++ , Embedded C, Python, Matlab  
Hardware AVR, Arduino, ARM, PLC  
Management Project Management, Organizational Behaviour, HRM  
Soft Skills Leadership, Creativity, Teamwork

## ACADEMIC PROJECTS

- Anti-Stampede Management ( Deep Learning based FYP for dense crowd estimation and monitoring)  
- KAHAK 571 (Hardware based 16-bit RISC processor)  
- Gesture TV Controller (Arduino, IR sensors and STM-32 based controller)  
- Hotel Management System ( OOP based project )

## Achievements

Served as Deputy Head Boy at The Educators, The Mall Campus.

## Community Involvement

Project Lead (09/2020-present)  
Khud Kafeel Pakistan

- A poverty elimination project to provide sustainable living to unprivileged members of society.

Director HR (09/2019-12/2020)  
Sponsor A Child, TABA NUST.

A project to support orphanages for quality education of orphans.

## Extra Curricular Activities

- Horseback Riding
- Swimming
- Hiking



# Arooba Azhar

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## Career Objectives

Dedicated final year student with excellent analytical skills and a demonstrated commitment to work as a collaborative and positive team member, striving to utilize my knowledge and expertise for management operations.

## EDUCATION

- 2018 – 2022 | Bachelor’s in Electrical Engineering | NUST-SEECS  
CGPA 3.4/4.0  
2016 – 2018 | Intermediate (Pre-Engineering) | HITEC Taxila  
Percentage Obtained 94%  
2014 – 2016 | Matric (Science) | HITEC Taxila  
Percentage Obtained 97%

## WORK EXPERIENCE

- Sept 2021-Present | Technical Intern | ESDAC Lab NUST  
This internship focuses on the research of innovative technical projects created by using Raspberry-Pi and Arduino. I am working currently on machine learning algorithms and sound detection analysis.  
This experience is helping me with the debugging and trouble-shooting skills. My technical communication skills are being enhanced by working in the lab as weekly I have to explain my working to students and common visitors.  
July 2021-Aug 2021 | Research Intern | Signal Processing and Smart AgriTech Lab NUST  
This internship focused on working on the F28379XD launchpad, a family of real time microcontrollers with vast applications for control purposes. For programming the board, two softwares were used; Code Composer Studio and Simulink (MATLAB). Different signal processing algorithms and tasks were achieved successfully. A detailed technical report including the tasks with their solutions and issues was submitted.

## Professional and Technical Skills

## Achievements

### Artificial Intelligence for Everyone

A course by Andrew Ng on Coursera, completed with a grade of 94.37%. It helped in understanding the AI terminology, including neural networks, machine learning, deep learning, and data science.

### Digital Manufacturing and Design

An online non-credit course authorized by University at Buffalo and The State University of New York and offered through Coursera. It focused on the transformation taking place, throughout the world, in the way that products are being designed and manufactured.

### Technical Writing

A course offered by Moscow Institute of Physics and Technology. It helped in developing technical writing skills necessary to communicate information gained through a process of technical or experimental work. The course



# Muhammad Awais

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## Career Objectives

Impassioned and committed Electrical Engineer with a satisfactory academic background seeking a technical or managerial position to avail and develop my skills in the field of Telecommunication, mobile networks and management.

## EDUCATION

2016	Matric	The Punjab School, Township, Lahore
2018	FSc	Punjab Group of Colleges, Lahore
2022	BEE	SEECs, NUST, Islamabad

## WORK EXPERIENCE

06-2019 07-2019 World Wildlife Fund (WWF)

I have contributed towards conserving precious natural resources of Pakistan at WWF, International Eco Internship Program

07-2019 08-2019 WWF

Installation of Segregated bins at Urban areas of Lahore

## PROFESSIONAL & TECHNICAL SKILLS

RF & Antennas	Computer Simulation Technology (CST)
Signals & Systems	MATLAB & Simulink
Communication	Communication Skills
Management	Time management & Teamwork

## ACADEMIC PROJECTS

Attendance Monitoring Device (Hardware & Software), AQI (Air Quality Index) prediction using Machine Learning (Software)

Automated Car Parking System with Empty Slot Detection (Final Year Project) FYP that will provide the solution for excessive time wastage during parking

# AYESHA SHAHID

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## Career Objectives

An enthusiastic individual looking to work in a challenging environment with maximum potential. Moreover, to work with a diverse group of people to enhance my engineering skills.

## EDUCATION

2022	BEE	National University of Science & Technology (NUST) (3.81)
2018	Fsc	Punjab College, F-8/4, Islamabad (980/1100)
2016	Matric	I.M.C.G, F-10/2, Islamabad (980/1050)

## WORK EXPERIENCE

7/2021 9/2021 NESCOM

I developed a Distributed Sensing and Monitoring (DSM) system which could further be extended in multiple industrial applications. Many different sensors, UART wire communication were used.

8/2021 9/2021 PEL

I learned about the basic power systems protection along with interactive sessions on faults and fault analysis. More in-depth knowledge about circuit breakers, fuses, CT/PTs, and other protection devices was gained

## PROFESSIONAL & TECHNICAL SKILLS

Programming	C/C++
Simulation	Pspice, Multisim and Proteus
Management	Team work, Time management, Multi-tasking, Quick learning
Other Softwares	MATLAB and Simulink, MS Office,

## ACADEMIC PROJECTS

Electronic Load Controller  
Prayer Reminding System  
Computer Based Online Shopping Management Organizational System (C++)



AYESHA ZAHID

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Career Objectives

Being a diligent Electrical Engineer with strong interpersonal, technical and analytical skills, I want to bring an innovative change in the society by making the best use of my knowledge. To meet my personal and organizational goals, I'm looking for an environment of growth and excellence.

→ EDUCATION

2016 Matric F.G.Girls Public School

2018 Fsc APSACS

2022 BEE National University of Science and Technology (NUST)

→ WORK EXPERIENCE

June,2019 July,2019 LearnOBots

Worked as a trainer in summer camps held by LearnObots. Taught Programming and Electronics Circuits to students of age 8 to 17. Developed effective Interpersonal Skills and studied basic Robotoc

July,2021 Sep,2021 Smart Agritech Lab

Designed a project to reduce road mishaps e.g., accidents, reduce traffic congestion etc. Hands on experience with Nvidia Jetson and Arduino. Implementation of Machine Learning and deep Learning techniques with basic concepts of digital system designing.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming C, C++, python, Ubuntu,OOP, Assembly Language

Electronics Deep Learning, Robotics, Digital System Design, Antenna

Software Proteus, MATLAB, ModelSim, AutoCAD, CST, MS Office

Soft Skills Communication and presentation, Team management skills

→ ACADEMIC PROJECTS

- 1. Digital medicine reminder box
- 2. Virtual Robot Navigation and localization
- 3. Building a 4-bit Number Crunching Machine
- 4. Designed FDM based Audio Transmission and Noise Removal System
- 5. Fooling Deep Classifier using Robust Physical-World Attacks
- 6. Interfacing LCD with ATmega16A microcontroller

Achievements

- Topper of National Science Exhibition
- Member of Science Talent Farming Scheme

Community Involvement

- Various Community Service Projects e.g., food drives, orphanage visits, Mosque renovation participation

Extra Curricular Activities

- Director at Dastaan Chadar NUST, a community service society
- Deputy Director at IEEE - SEECS Chapter
- Executive Administrative Assistant at SGA NUST



Azlan Ikram

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Career Objectives

I am a passionate fresh graduate looking for internship/jobs to utilize my skills in relevant domains and improve my skill-set along the way. Technically adept with modern technology having excellent soft skills, team work and leading abilities with positive workplace attitude.

→ EDUCATION

2022 BE Electrica National University of Sciences and Technology

2018 F.Sc Islamia College University, Peshawar

2016 Matric Pakistan Airforce College Lowertopa, Murree

→ WORK EXPERIENCE

7/5/2021 9/5/2021 RISC Research Lab SEECS (Internship)

Worked on the Real-time inference and optimization of Deep Neural Networks.

→ PROFESSIONAL & TECHNICAL SKILLS

System Design Verilog and system design on FPGA

Embedded system Implementing RTOS on embedded systems

Linux Linux workflow and operation

Machine Learning Training and Inference of CNN's on Edge Devices.

→ ACADEMIC PROJECTS

- Face Unmasking by Regeneration using CNNs (FYP 2021-2022)
- OCR based Speech Synthesis System In Labview (2021)
- Sudoku in C++ (2019)

Achievements

FreeLancer at Fiverr Level 1 Seller (2021).

Community Involvement

Ramzan Food Drive (April 2022)

-Volunteer at Ramzan food drive in collaboartion with TABA SEECS chapter.

Extra Curricular Activities

- Press Secretary at NUST Science Society
- Graphics Designing
- Photography
- Photo Editing
- Oil Painting
- Videogames

# FAHAD SOHAIL

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LinkedIn profile Fahad Sohail

## Career Objectives

A highly motivated Electrical Engineer seeking a rewarding position in a result-oriented organization that aims for an ambitious and career conscious person, where my skills and knowledge will be utilized in exchange for career guidance, training and opportunity for advancement.



## EDUCATION

2022 BS-EE National University of Sciences and Technology  
2018 FSC IMCB G-10/4  
2016 MATRIC IMCB G-10/4



## WORK EXPERIENCE



## PROFESSIONAL & TECHNICAL SKILLS

Programming C++, Python, OOP, Verilog  
Electronics Matlab, Proteus, Simulink  
Workshop Autocad



## ACADEMIC PROJECTS

Maximum Power Point Tracking (MPPT) solar charge controller (FYP)  
Online Taxi registration using C++ language  
Digital clock with set, reset and alarm features

### Achievements

### Community Involvement

Volunteered in an Iftar drive organized by Shalptan Homage

### Extra Curricular Activities

Sports  
Gaming

# Izzah Ikram

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## Career Objectives

An ambitious, dedicated and motivated student in the final year of Electrical Engineering at NUST with an in-depth understanding of the subjects yet studied and who has demonstrated appreciable technical and communication skills in a collaborative working environment. Highly dedicated towards my goals, eager to learn more, and always striving for the best.



## EDUCATION

2016 Matriculation Bahria College Islamabad  
2018 Intermediate Bahria College Islamabad  
2022 Bachelors SEECS-NUST



## WORK EXPERIENCE

June 2021 August Smart Agri Tech Lab - NICHE

Worked on a Delfino board which is mainly used for real time control applications to analyze sound by incorporating a microphone with the board and making forward communication decisions based on this analysis.

Sep 2021 Present ESDAC Lab

Working on innovative projects involving Raspberry Pi and Arduino boards that could prove useful for the environment by helping detect deforestation.



## PROFESSIONAL & TECHNICAL SKILLS

Soft Skill Team work, ambitious, critical thinking  
Technical MATLAB, C, C++, Verilog  
Soft Skill proficiency in Microsoft Office



## ACADEMIC PROJECTS

- Low Power Forest monitoring system
- Automatic Plant Watering System
- Simulation of Hopper Robot
- Hotel Management System

### Achievements

Got a a cholarship in my intermediate and also one in my 7th semester of university after getting a 4.0 GPA.

### Community Involvement

Involved in a cloth donation drive that collected clothes for the underprivileged.  
Taught in an open school that aims to provide at least the basics of education to those who can not afford to get it themselves.

### Extra Curricular Activities

Love painting, am an occasional reader and also raed some comics.



## Ahmad Mustafa

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### Career Objectives

A highly motivated and deadline-driven engineer seeking a challenging role at a reputed organisation to utilize my engineering skills that can contribute to the company's growth as well as enhance my knowledge by exploring new things.



### EDUCATION

2015	Matric	Crescent Model School, Lahore
2017	FSc.	Punjab College, Lahore
2022	BSc.	National University of Sciences and Technology, ISB



### WORK EXPERIENCE

Feb,2022 Present Radwa  
Complete and debug projects related to home automation

Jun, 2021 Sep,2021 PSO  
Maintenance Engineer



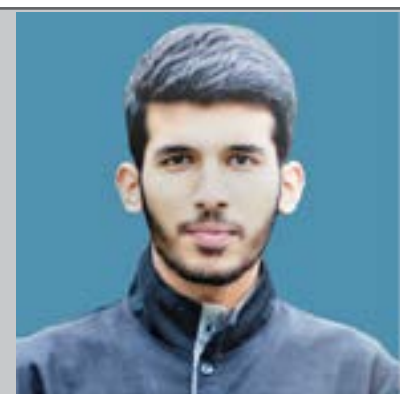
### PROFESSIONAL & TECHNICAL SKILLS

Programming	Proficient in c & c++
Electronics	Matlab
Electronics	Eagle / pcb designing
Artificial Intelligence	Machine Learning



### ACADEMIC PROJECTS

- Online Chatbox Server (Socket Programming)
- Number Crunching Machine
- IoT Based Smart Home Using FreeRTOS



### Achievements

### Community Involvement

Pakistan Red Crescent Society  
( 15-Jun-2018 - 15-Aug-2018 )  
Teach students and interact with them to give back to the community. It was an opportunity for me to meet people who believe in the same causes as I do.

### Extra Curricular Activities

Freelancing  
Sports



## IQBAL HUSSAIN

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### Career Objectives

Seeking employment as an Electrical Engineer to use experiences with ensuring all electrical equipment functions efficiently and leading project teams for the benefit of company.



### EDUCATION

2016	SSC	Al Razi Public School Kanju, Swat
2018	FSc	Islamia College Peshawar
2022	BEE	School of Electrical Engineering and Computer Science



### WORK EXPERIENCE

2013 Present Envato Australia  
Designer  
Web Design, Graphic Design, UI/UX Design, Print Design, Templates Design

2022 Present SEECS, NUST  
Research Assistant  
Nanogenerators for self-powered IoTs, Electronic Work Station Design



### PROFESSIONAL & TECHNICAL SKILLS

Design	Web Design
Design	Graphic Design
Manufacturing	3D Printers and 3D Printing
Electromechanical	Electromechanical Systems Design



### ACADEMIC PROJECTS

Fabrication of 3D Printer

### Achievements

3rd Position in BISE Swat  
Best Artist Award  
Featured Author on Envato  
Handpicked Freelancer on Envato Studio

### Community Involvement

Online Examination System for  
Etance Examinations of Pakistani  
Universities

### Extra Curricular Activities

Painting, Designing, Traveling,  
3D Printing, Reading,





# SHEHRYAAR ALI

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## Career Objectives

An Electrical Engineer with interest in Power Electronics & Control Systems. Particularly enthusiastic about the themes of Electric Vehicles, Sustainable Solutions, and Renewable Energy Systems. Seeking a challenging position in a reputed organization where I can learn new skills, expand my knowledge, and leverage my learnings.

## EDUCATION

2022	BSc	Electrical Engineering from SEECS, NUST, Islamabad
2022	Minor	Business Management from NBS, NUST, Islamabad
2018	FSc	Pre-Engineering from Govt. College University, Lahore

## WORK EXPERIENCE

Jan 2022	Feb 2022	Intech Process Automation Pvt. Ltd.
Instrumentation & Control Intern - Key Responsibilities include P&ID, I/O Lists and ELC HLC Study, Design and Integration of HMIs with PLCs specifically Honeywell PLC Systems		
Jun 2021	Aug 2021	NUST School of Interdisciplinary Engineering & Sciences
Intern Advanced Signal Processing Lab - Research Experience include integration of Embedded Systems with Power Electronics and Control Processes by its implementation on Hardware		

## PROFESSIONAL & TECHNICAL SKILLS

Electrical Engg.	MATLAB & Simulink
Electrical Engg.	Arduino & NodeMCU ESP32 Boards
Business Mngmt.	International Business Management
Business Admin.	Fundamentals of Marketing

## ACADEMIC PROJECTS

- Final Year Project - EV Battery Pack: Building 0.5kWh Battery Pack using Active BMS
- Power Electronics Project -Solar PV System with MPPT using Boost Converter
- Digital Logic Design Project - Morse Code Machine
- Machine Learning Project - Air Quality Index Prediction

### Achievements

BAT Global Battle of Minds - Pakistan Tobacco Company (2021)  
  
1st position in Farming Challenge  
2nd Runner-Up overall

### Community Involvement

Hospital Volunteer - Volunteered at Shaikh Zayed Hospital, Lahore  
  
Mosque Renovation - Collected monetary funds for renovation of a mosque in Rawalpindi  
  
Ecopreneurship - Interned at WWF Pakistan with project related to human induced environmental pollution

### Extra Curricular Activities

Gardening - Love to care for plants and just watch them grow



# ZAINAB JAMIL

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## Career Objectives

A methodical and hard-working student working on RISC-V Vector Extension and I am eeking to leverage my analytical and technical skills in different fields of Electrical Engineering

## EDUCATION

2022	Bachelor of I	National University of Sciences and Technology (NUST)
2018	FSc	Government College for Women, Muzaffargarh
2016	Matric	Sardar Kaurey Khan Public Higher Secondary School

## WORK EXPERIENCE

2021	Real-time Intelligent Secure Computing (RISC) Lab	
<ul style="list-style-type: none"><li>- Reviewed and analyzed the available AI microprocessors.</li><li>- Further developed the Control Status Register (CSR) file of RISC-V vector extension micro-architecture.</li></ul>		
From	To	Organization
Brief summary of key responsibilities - work / research experience		

## PROFESSIONAL & TECHNICAL SKILLS

HDL	Verilog / FPGA
Embedded	ARM Assembly / RISC-V Assembly
Programming	Embedded C/ C / C++ / Python
Project Execution	Leadership and Communication

## ACADEMIC PROJECTS

- 1- Efficient Neural Network Processor based on RISC-V Vector Extension
- 2- Smart Traffic Control System using FreeRTOS
- 3- FPGA proven Microprocessor
- 4- Time and Frequency Division Multiplexers
- 5- 4-bit Crunching Machine



# AEIMEN FATIMA

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LinkedIn profile <https://www.linkedin.com/in/aeimen-fatima-0006841b7>

## Career Objectives

Organized, detail oriented and hardworking person. Self-motivated with the ability to leverage my knowledge and apply my skills in various contingent environment. I'm looking for a challenging position at a reputable company where I can develop new skills, broaden my knowledge, and use what I've learned. To be given an opportunity to maximise my abilities and contribute to the organization's progress.

## EDUCATION

2022 BE Electrical NUST - SEECS  
2018 F.Sc PreEng APS Hamza Camp  
2016 Matric APS Hamza Camp

## WORK EXPERIENCE

12-7-2021 26-8-2021 PTCL  
Recording daily alarms and interruptions in MSAGs  
Monitoring transmission and network connections  
Run network tests for communication error  
Resolving network halts for wireless connections  
01-2-2021 15-2-2021 NEPRA  
Assigned to Monitoring & Enforcement Department  
Report making for generation data of power plants  
Designing plan for NEPRA Energy Week  
Drafting noting for inter-departmental communication

## PROFESSIONAL & TECHNICAL SKILLS

Telecommunication Computer & Comm Network, Mobile Comm, LoRaWAN  
Embedded Systems ARM Cortex, AVR, Raspberry Pi, Arduino, FreeRTOS  
Programming C, C++, Verilog HDL, Assembly Language  
Softwares MATLAB, Proteus, PSPICE, Multisim, Quartus, LabVIEW

## ACADEMIC PROJECTS

Pharmacy Management System  
Hotel Management System  
Automated Plant Watering System  
Real-Time People Tracker and Prohibitor(Embedded System)  
Final Year Project(FYP): Low-Power Forest Monitoring System using LoRa-WAN

### Achievements

- Team Lead EE at PowerWalk
- Director Registration at ICAI'21
- Director Liaison for ACM NUST Student Branch

### Community Involvement

- Volunteered twice at Al Shifa Eye Trust Hospital
- Collected donations for one year education of two orphan kids at Pakistan Sweet Home

### Extra Curricular Activities

- Captain of Basketball team at school
- Vice Captain of College Netball team
- Orientation Guide at Orientation of NUST'19



# Ahmed Gulraiz Yar Khan

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LinkedIn profile <https://www.linkedin.com/in/ahmed-gulraiz-baba09216/>

## Career Objectives

Adaptable, enthusiastic, committed electrical engineer with a highly analytical mindset, passion for innovation, and documented success in hands-on roles in various student run societies at NUST.

## EDUCATION

2022 BS-EE SEECS, NUST  
2018 A Levels Sadiq Public School  
2016 O Levels Sadiq Public School

## WORK EXPERIENCE

07/2021 08/2021 The Citizens Foundation  
Here I had been an English instructor for a month. This was my virtual internship for a month because of the COVID scenario.  
07/2019 08/2019 Idara e Taleem o Agahi  
This is an NGO working to promote women education in far flung areas. I worked here with team HR and had 3 field visits too which revealed to us that it is not only an office but it had some properly functioning primary schools.

## PROFESSIONAL & TECHNICAL SKILLS

Presentation Communication skills and Presentation skills  
Teamwork Team coordination and collaboration

## ACADEMIC PROJECTS

Final Year Project= MPPT versus PWM  
Power Electronics Project =Boost Convertor  
DLD Project = RPM Meter  
Programming Projects = Sensus Analytis

### Achievements

Attended training camp for Internal Physics Olympiad at PIEAS in 2017 after being shortlisted through screening test held at Multan in 2017.  
Semi Finalist Graduate Trainee Program at Reckitt Benckiser 2022.

### Community Involvement

Volunteer at Youth Club for Iftar Drive in 2022.  
Volunteer at Fixit Islamabad in 2019.

### Extra Curricular Activities

Write Extra Curricular Activities Here



# Babar Mustafa

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## Career Objectives

To disseminate and implement my capabilities in a reputable, progressive organization and at the same time expand my intellectual horizon by engaging in a cognitive challenging environment.



## EDUCATION

2016 CIE O level ROOTS IVY Int. Schools

2018 CIE A level ROOTS IVY Int. Schools

2022 BE (Electr) NUST, H-12, Isb



## WORK EXPERIENCE

2020 2021 NUST

Research on end to end cryptographically verifiable voting machines in collaboration with the Govt. of Pakistan.

2017 2017 Suzuki Central Motors

An internship program on site at a mechanical workshop under direct guidance and supervision of the manager.



## PROFESSIONAL & TECHNICAL SKILLS

Programming C/C++ , python, Verilog HDL, Matlab, LabVIEW

Control Design Non-linear control design and its Simulink simulation

Public Speaking Debating and lectures on various topics

Advisory Consulting and advisory on electronics and related matter



## ACADEMIC PROJECTS

- Bank management system on C++
- VGA graphics card on a breadboard, using digital logic design
- Designed a 9-bit processor on RISC-V
- Arduino based Gas sensor and alarming system, simulated on LabVIEW

### Achievements

- High Achiever in O/A levels with highest number of A's, Gold Medalist
- Receiver of 100% scholarship from Roots IVY during A levels
- Receiver of cash prize from NUST for high performance
- IEEE ICT Honet 2018 conference, Research assistant.

### Community Involvement

- WWF Internship program
- Al-Shifa eye trust volunteer program
- Organization of plantation drives

### Extra Curricular Activities

- Parliamentary style debating
- Travelling
- Professinoal hard ball cricket

# AYESHA ZAHID

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LinkedIn profile www.linkedin.com/in/ayesha-zahid-electrical-engineer

## Career Objectives

To utilize my expertise in the field of electrical engineering and implement my innovative ideas and creative mind towards the area of specialization.



## EDUCATION

2022 BE (EE) National University of Science and Technology, Islamabad

2016 Fsc Fauji Foundation College for girls, New Lalazar, Rawalpindi

2013 SSC Fazaia Intermediate College, Nur Khan, Rawalpindi



## WORK EXPERIENCE

05-07-21 28-08-21 RIMMS Microwave Devices and Antenna Lab

- worked on ADS software
- worked on the design of super heterodyne receiver
- learnt about filters, mixers and amplifiers

06-07-21 28-08-21 SIGMA/EEG LAB AT SEECS, NUST ,ISLAMABAD

- Worked on design of Autonomous Drone project
- Attended workshop on JETSON NANO and TensorRT
- Took courses on machine learning and deep learning from Coursera as part of the training



## PROFESSIONAL & TECHNICAL SKILLS

RF and Microwave RF circuit designing on ADS and CST

RF and Microwave Antenna and RF Circuit testing

Electrical Engineerin Expertise in Matlab, Quartus, Labview, Proteus and Pspice

Languages Hardware (Verilog) , Programming (C, C++, Python)



## ACADEMIC PROJECTS

1. IC BASED RF SUPERHERTRODYNE RECEIVER
2. CHAT BOX IMPLEMENTATION (Python)
3. DESIGN OF GRAPHIC CARD and MICROPROCESSOR (Verilog)

### Achievements

Shortlisted for the 3rd and final stage of FICS 2022  
( Project: generation of Hydrogen fuel using water and sunlight)

### Community Involvement

- Master Ayub Street School (May, 2022) teaching the street kids and providing furniture and stationary
- Food Donation Drive ( March, 2022) Distributed 80 boxes of meal in daily wagers and Madrassa's students
- CHADAR - Poverty Alleviation Organization (2019) Volunteered at Street Store (Clothing Donation Drives)

### Extra Curricular Activities

- NUST CHARACTER BUILDING SOCIETY (2018-2022) Vice President (2021-22) Director HR (2020-21) Deputy Director HR (2019-20) Executive HR (2018-19)



# Muhammad Abdur Rehman Wasti

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LinkedIn profile [linkedin.com/in/syedwastil](https://www.linkedin.com/in/syedwastil)

## Career Objectives

Electrical Engineer passionate about learning and solving real-world energy problems . Eager to polish skills in embedded systems. Love to work in projects of home automtion and controls.

## EDUCATION

2022	BEE	Electrical Engineering, SEECS NUST
2018	HSSC	FSc. Pre-Engineering, GPGC Bhakkar
2016	SSC	Govt Model High School Bhakkar

## WORK EXPERIENCE

5/7/2021 3/9/2021 System Optimization Lab (SOL), NUST SEECS  
Design and fabrication of DLC meters to evaluate environment parameters and power consumption pattern. Along with data logging for pattern analysis.

1/7/2020 1/7/2020 FESCO  
Assisted SDO in regular maintenance of distribution lines. Maintained power records on 132kWA Grid.

## PROFESSIONAL & TECHNICAL SKILLS

Hardware Skill	Pspice, Multisim, Proteus, LABVIEW, AutoCAD
Programming	C/C++, FreeRTOS, Matlab, DSA, SQL, Assembly language
Soft Skills	Team Management, Good Listener, Leadership
Technical Skills	Circuit designing, PCB layout designing, Adobe Illustrator

## ACADEMIC PROJECTS

- 1- Demand Responce Using Thermal Appliances (Final Year Project
- 2- Speed Measurement using Digital Logics
- 3- Power monitering and Control using FreeRTOS
- 4- Feature detection using SURF Algorithm
- 6- Supermarket Billing System using C# and MySQL



### Achievements

- 1-Alumni at Science Talent Farming Scheme Batch II
- 2- Got 2nd position in District in 8th grade
- 3- Among Top Position Holders in SSC
- 4- Awarded by 3 Laptops in recognition of Academic Achievement

### Community Involvement

- 1- Attended 6 Community Service Learning (CSL) Workshops
- 2- Project Insaniyat
- 3- Ramadan Mehrban Dastarkhwan
- 4- District Chief Fixit

### Extra Curricular Activities

- 1- Graphic Designer
- 2- Treasurer at NUST Excursion Club
- 3- HR Coordinator at NUST Fitness Club
- 4- Mentor at Bhakkar Students and Alumni Community

# Mahnoor Arshad

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## Career Objectives

Aim to achieve excellency in any field. Enthusiastic and eager to grow and learn new experiences and skills while utilizing analytical abilities, creative skills and technical knowledge.

## EDUCATION

2022	BEE	National University of Science And Technology (NUST)
2017	FSc	Fauji Foundation

## WORK EXPERIENCE

Nov, 2021 March 2022 Pakistan Air Force  
Studied various antenna designing concepts and performed link budget analysis. Designed various antennas including Vivaldi, dipole, monopole, patch antenna, dish antenna and reflective array.

## PROFESSIONAL & TECHNICAL SKILLS

RF	Antenna Magus / CST / ADS /LabVIEW
Programming	MATLAB / C / C++
Electrical	Simulink / PSpice / Multisim
Soft Skills	Teamwork and Time Management / Conflict management / Analytical thinking

## ACADEMIC PROJECTS

1. Breast-Cancer Detection via Microwave Imaging
2. Frequency Division Multiplexer
3. 4-bit Crunching Machine using basic logic gates, EEPROM, Data Registers, and Control Logic.
4. Tea Brewer utilizing digital logic design concepts
5. Carbon Footprint Analyzer





## Malik Aqib Zahoor Awan

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### Career Objectives

A conscientious and proactive Electrical engineer to-be with acknowledged leadership qualities and an added passion for innovation. With a focus to gain accelerated learning & exposure to business covering both technical & management aspects

## → EDUCATION

2018-22	Electrical	National University of Sciences & Technology
2017-18	FSC - Math	Punjab Group of Colleges, Ayub Park Campus
2016-17	Matric - Science	Sir Syed Public School, Tipu Road Rawalpindi

## → WORK EXPERIENCE

June 2021	Aug 2021	Fatima Fertilizers Company Limited
<ul style="list-style-type: none"><li>• Root Cause Analysis report of 'Voltage Drop - Dip on Transformer'</li><li>• Power Generation by GTG &amp; STG, Types of Breakers &amp; Working, Types of Cables &amp; Cable Sizing and Ingress Protection &amp; Relays</li></ul>		
May 2019	July 2019	ARY News
<ul style="list-style-type: none"><li>• Awarded as Top Summer Intern for 2019 - Islamabad Head-office &amp; worked for the show 'Aiteraz Hai' with senior anchor Mr. Adil Abbasi</li><li>• Familiar with Maintenance &amp; Operation of broadcast television equipment</li></ul>		

## → PROFESSIONAL & TECHNICAL SKILLS

Technical Skills	E-Tap, PSSE, Proteus, MATLAB, Simulink, Multisim, LabView, C, C++
Management Skills	Figma, Asana, Slack, Root Cause Analysis, Microsoft Excel Analysis
Soft Skills	Business Communication, Team Management, Problem Solving & Innovation, Project Management, Microsoft Power-BI, Leadership, Analytical Skills

## → ACADEMIC PROJECTS

1. Smart Under-frequency Load Shedding System
2. 7V AC Variable Voltage Supply - Relay Testing Bench
3. Airborne Wind Turbine

### Achievements

- NUST Director Student Affairs Presidential Award
- Top 100th position in board
- 1st in School at Matriculation
- Full Fee Scholarship at:
  - a) Global Educational Academy
  - b) Punjab Group of Colleges
- Class representative (3rd-9th)
- Two times shield winner at the College Prize Ceremony

### Community Involvement

1. CoFounder - Believers Foundation
2. Head - Faryad Foundation

### Extra Curricular Activities

1. President - NUST BioReach Society
2. Vice President - ICMAC'21
3. Vice President - IEEE SECS
4. Director ER - NUST Dramatics Club
5. Organizer - HONET'18



## MUHAMMAD SAAD KHAN

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### Career Objectives

Electrical engineer with a diligent approach to my work. A keen learner passionate about achieving my best. Ambitious and energetic in undertaking an assigned task. My career objective is to become the best version of myself well equipped with the skills in demand.

## → EDUCATION

2022	BEE	National University of Sciences and Technology (NUST)
2018	HSSC	Fauji Foundation College for Boys
2016	SSC	Quaid Science Academy

## → WORK EXPERIENCE

Sep,2020	Oct,2020	Pakistan Broadcasting Corporation(PBC)
Worked in <ul style="list-style-type: none"><li>• Communication Procedure Department.</li><li>• Transmitter Maintenance/Generator Department.</li></ul>		
Jul,2021	Aug,2021	Pak Elektron limited (PEL)
Worked in <ul style="list-style-type: none"><li>• Export PD Department.</li><li>• Transformer theory Department.</li></ul>		

## → PROFESSIONAL & TECHNICAL SKILLS

Electrical	MATLAB, Simulink, PSpice, Multisim
Electrical	Proteus, LabView, Modelsim, AutoCAD
CS/ Microsoft	Python, C/C++, JavaScript, Word, PPT, Excel
Language/Soft	Eng/Urdu,Multitasking, Creative, Team Work, Adaptability

## → ACADEMIC PROJECTS

Electronic Load Controller-FYP  
MAT-CAL  
GREEN FIELDS  
T-SWITCH  
4-BIT MICROPROCESSOR/ CHAT BOT

### Achievements

Won Rs.15k scholarship for high GPA.

Won Rs.15k scholarship for achieving high grades in HSSC-1 examination.

Won second prize for poetry at talent competition at SECS, NUST

### Community Involvement

Ration Drive in Ramadan.

Wheelchairs distribution drive.

### Extra Curricular Activities

Executive Marketing , Youth Entrepreneurial Society

Executive Admin Events ,Nust Entrepreneurs Club

Executive Marketing , 2019 Welcome SECS

Executive Marketing, SECS GALA 2020



MUHAMMAD HAMZA SHAKOOR

Email Address

its.hamza100@gmail.com

LinkedIn profile

https://www.linkedin.com/in/muhammad-hamza-shakoor/

Career Objectives

To secure a challenging position of data scientist and python programmer in a reputable organization to expand my learnings, knowledge, and skills.

→ EDUCATION

2016	Matric	Happy Home School
2018	Fsc	Punjab College of Science
2022	BEE	NUST H12 Campus

→ WORK EXPERIENCE

Sep 2021	Jan 2022	Cyfer Solutions
Leads Generation Specialist. I generated leads of software and IT solution projects for this software house. Part time job		
July 2021	Dec 2021	NeuroInformatics Research Lab
Research Assistant at Pakistan's first EEG Research Lab, Neuro-Informatics Lab at SEECS-NUST.		

→ PROFESSIONAL & TECHNICAL SKILLS

EE	Computer Vision, Digital Image Processing
EE	MATLAB
CS	Python, C/C++. TensorFlow, OpenCV
CS	Web scraping, Automation, Data Analytics and Visualization

→ ACADEMIC PROJECTS

EEG Signals based Thought to Text Translation Device (Brain Typing)  
Facial Recognition based Automatic Attendance System  
Artistic Pattern Formation using Multi Robot System  
Digital Accelerometer

Achievements

First Position Winner FYP at YIP Awards 2020  
Funding from HEC for our FYP

Community Involvement

Team Member Teach for Pakistan  
NUST Community Services Club  
NUST Debating Society  
Member of KhidmatGar

Extra Curricular Activities

Swimming  
Gym  
Skateboarding

MUHAMMAD BILAL ELAHI

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LinkedIn profile

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Career Objectives

To work in a nurturing environment that allows me to expand my engineering knowledge and skills.

→ EDUCATION

2022	BE Electrical	National University of Sciences and Technology
2018	FSC	Fazaia Inter college E-9, Islamabad
2016	HSSC	Fazaia Inter college E-9, Islamabad

→ WORK EXPERIENCE

10-8-2021	10-9-2021	United International Technologies (Pvt) Ltd.
I did a one month internship at UIT, which is an aviation standard harness manufacturing facility setup.		

→ PROFESSIONAL & TECHNICAL SKILLS

Programming	C & C++
Programming	Python 3
Embedded	Free Rtos
Embedded	Verilog programming

→ ACADEMIC PROJECTS

Portable Embedded Chest X-RAY Classifier for Tuberculosis(TB) Detection.  
Smart Traffic Control System Using Arduino Uno and STM32 ARM Cortex.  
Chat box (Python, socket programming).  
Car search engine (Object Oriented Programming, C++).

Achievements

Won multiple basketball tournaments.  
Won multiple badminton and table tennis tournaments.  
Solver at Photomath.

Community Involvement

Helped my community through different food and cloth drives.  
Installed water coolers at different locations to help my community in this scorching heat.

Extra Curricular Activities

Participated in multiple Basketball tournaments.  
Participated in multiple Dota 2 events.  
Badminton.  
Table Tennis.  
Swimming.



# Syed Muhammad Nasir

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

## Career Objectives

A highly motivated and hardworking individual looking for a responsible role in the field of Machine Learning or Embedded Systems.

## EDUCATION

2022 Bachelors National University of Sciences and Technology  
2018 HSC Adamjee Govt. Science College  
2016 SSC Sadequain Foundation School

## WORK EXPERIENCE

07/07/21 17/8/21 Thal Boshoku Pakistan  
Got trained for Toyota Production System.  
To give ideas for improvement in terms of Safety and Productivity for different Machines and preparing its report.  
01/09/20 30/09/20 Marriott Hotels  
Designed AutoCAD Drawings for 8 LT and HT Panels.  
Studied the Parallel Generator Operation installed at Marriott Hotels.

## PROFESSIONAL & TECHNICAL SKILLS

Programming C / C++ / Python / MATLAB  
Machine Learning Tensorflow / ScikitLearn / Matplotlib / Numpy / Pandas / Ke  
Hardware Microcontrollers / Development Boards / Peripheral interfac

## ACADEMIC PROJECTS

- 1.) An Explaianble AI based CDSS
- 2.) e-Care
- 3.) Robust Depth Estimation

### Achievements

National University of Sciences and Technology(NUST)  
GPA based scholarship for Fall 2019 and Spring 2020 semesters.

### Community Involvement

Volunteer at Akhuwat Foundation  
[ Karachi, 01/07/2019 – 30/07/2019 ]  
Set up and managed a Cloth Donation Drive  
Worked with 5 team members to conduct various activities and giving back to the society

### Extra Curricular Activities



# Safwan Ullah Khan

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LinkedIn profile <https://www.linkedin.com/in/safwan-ullah-46a329170/>

## Career Objectives

Seeking employment as an Electrical Engineer to use experiences with ensuring all electrical equipment functions efficiently and leading project teams

## EDUCATION

2022 BE Electrical National University of Sciences and Technology  
2018 HSSC Fazaia Inter college, Kamra  
2016 SSC Fazaia Inter college E-9, Islamabad

## WORK EXPERIENCE

July 21 August 21 UNESCO, Paris, France  
I worked at Permanent Delegation of Pakistan to UNESCO. I helped in scheduling andorganizing meetings for Delegations. I Participated in UNESCO meetings and conferences. Ieffectively managed all filing work and correspondence.

## PROFESSIONAL & TECHNICAL SKILLS

Programming C & C++  
Programming Python 3  
Embedded Free Rtos  
Embedded Verilog programming

## ACADEMIC PROJECTS

Portable Embedded Chest X-RAY Classifier for Tuberculosis(TB) Detection.  
Smart Traffic Control System Using Arduino Uno and STM32 ARM Cortex.  
Chat box (Python, socket programming).  
Car search engine (Object Oriented Programming, C++).

### Achievements

Won multiple basketball tournaments.  
Solver at Photomath.

### Community Involvement

Helped my community through different food and cloth drives.  
Installed water coolers at different locations to help my community in this scorching heat.

### Extra Curricular Activities

Badminton.  
Table Tennis.  
Swimming.



## SYED JAWAD RAZA

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### Career Objectives

Seeking an entry level position in a renowned organization where my skills and capabilities can be best utilized with opportunities for professional development.

## → EDUCATION

2022 BE Electrical SEECS, NUST

2018 FSC. FG Sir Syed College, The Mall

2016 Matric APSACS

## → WORK EXPERIENCE

Jul 2021 Aug 2021 Pak Elektron Limited (PEL)

Worked in the Distribution Transformer Department. Went through the process of how specific transformers are designed according to customer req. Submitted a final project showcasing working and application of distribution transformers.

Dec 2019 Jab 2020 ENA Pakistan

Worked directly under head of projects and services where I was part of a team which visited industrial units to assess their exact power requirement. Documented the amount of power being used in different parts of their buildings

## → PROFESSIONAL & TECHNICAL SKILLS

CS HTML, CSS, Bootstrap

CS C, C++, Python, Javascript

Soft Skills Project Management, Communication, Teamwork

Electrical Power System Analysis/Protection, Power Electronics

## → ACADEMIC PROJECTS

Design and Development of IoT Network for Smart Aquaponics (FYP):  
Worked on an HEC funded project under the supervision of principal RIMMS.  
Led a team of 6 individuals which designed and implemented an IoT, and ML based automated farming system. Minimized water consumption and maximized crop yield by using a closed loop system. Developed a mobile application for the project using Flutter and Firebase

## Muhammad Moeed Ashfaq

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### Career Objectives

To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills.

## → EDUCATION

2022 BEE National University of Science and Technology

2018 F.Sc Punjab College Faisalabad

2016 Matric Allied School

## → WORK EXPERIENCE

Jul,2019 Aug, 2019 PTCL

My work here was to learn and implement the knowledge of communication systems, as an internee. I worked in the switching department and learn the basics of communication networks and detail of components in the network.

Feb,2022 Mar,2022 Zimco Internship

It was related to the supply chain. My work here was to deal with the communication of different companies and share the quality products

## → PROFESSIONAL & TECHNICAL SKILLS

EE MATLAB

EE Logixpro, PSPICE, Proteus

Others Creativity

Others Team Work

## → ACADEMIC PROJECTS

1. Artificial Pancreas for Type-1 Diabetes patients(Final Year Project)
2. 12-Bits BCD Adder Subtractor using 9's Complement (Hardware)





ADNAN KARIM

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Career Objectives

Passionate machine learning engineer with 2+ years of experience in predictive modeling and data mining. Excited to implement statistical machine learning solutions for OSTF.

→ EDUCATION

2022	BEE	SEECs, NUST
2018	HSSC	Pak Turk Maarif International School and College Boys
2016	SSC	Pak Turk Maarif International School and College Boys

→ WORK EXPERIENCE

JAN 2022 PRESENT OSTF, NORTH CAROLINA

To analyze real data and build AI based financial models for generating trading signals and strategies.

July 2021 DEC 2021 OMDENA, USA

Used Pakistan's availability of electricity datasets to identify sites that are most suitable for solar panel installation as a greener energy source through data analysis.

→ PROFESSIONAL & TECHNICAL SKILLS

FRONT END	HTML, CSS, JS, REACT, NEXT.JS, GATSBY
BACKEND	NODE, FLASK, MYSQL, MONGODB
DEEP LEARNING	PYTORCH, TENSORFLOW, KERAS
MOBILE	REACT NATIVE

→ ACADEMIC PROJECTS

1- COMPUTER VISION BASED SELF CHECKOUT AI CART

2- Diagnosis and Prognosis of Diabetes Mellitus with deep learning

3- ORANGE YIELD ESTIMATION USING DEEP LEARNING

Achievements

HACKER RANK 5 STAR SQL

KAGGLE COMPETITION RANK 243/2200

Community Involvement

Math Learning Coach @The Citizens Foundation

Director WEB & IT @NUST ACM

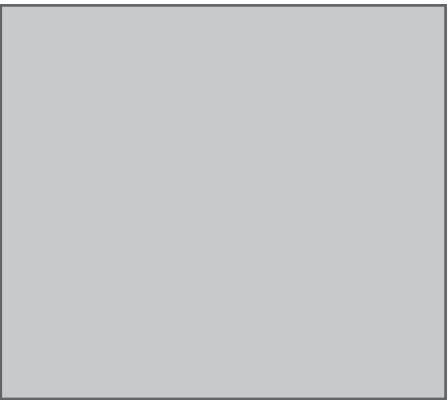
Extra Curricular Activities

E-GAMING

READING

CHES

NETFLIX



MAHAD WASIQUE

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Career Objectives

To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills.

→ EDUCATION

2016	Matric	Garrison Academy Senior Campus Grw Cantt
2018	Fsc	APS Grw Cantt
2022	BEE	NUST H12 Campus

→ WORK EXPERIENCE

June 2019 Aug 2019 BOSS Home Appliances Pvt, Ltd.

Worked as a technical internee in the production line department. Understood the working of Injection Pump Machines. Assembling and Dis-assembling of AWM Machines.

Aug 2020 Sep 2020 PepsiCo

I was appointed as a technical internee to observe and realize the prospects of manufacturing process of the product in the form of Single Served Returnable Bottle (SSRB).

→ PROFESSIONAL & TECHNICAL SKILLS

EE	Atmel Studio
CS	C/C++
EE	Proteus
CS	OpenCv

→ ACADEMIC PROJECTS

COMPUTER VISION BASED OBJECT DETECTION AND OBSTACLE AVOIDANCE FOR VISUALLY IMPAIRED (FYP).

4-BIT CRUNCH MACHINE (MICROPROCESSOR).

FLYBACK CONVERTER.

FACE EMOTION DETECTION USING OpenCv

Achievements

Honors, Awards or any other Worth Mentioning Achievements

Community Involvement

NUST COMMUNITY SERVICES CLUB

Director Marketing 20-21

ASSOCIATION FOR COMPUTER MACHINERY

Team Lead Marketing 20-21

Extra Curricular Activities

Write Extra Curricular Activities Here



# MUGHEES QASIM

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**Career Objectives**  
I am a Unity Developer with in-depth knowledge of Mathematics and Physics from my Engineering degree and confident command over Data Structures, Algorithms and databases from self learning and I am looking for game development jobs.

## → EDUCATION

2022	BEE	NUST H12
2018	FSc	Punjab College Kasur
2016	Matric	District Public School Kasur

## → WORK EXPERIENCE

2020 Present Fiverr  
I had been teaching Digital Logic Design on Fiverr for almost 1 year. After that I have been working as a Unity Game Developer.

June,2021 Aug, 2021 Internship  
Implemented a machine learning model using keras framework on GPU. The model is designed to unmask masked faces and it provides with the part of face hidden behind facemasks.

## → PROFESSIONAL & TECHNICAL SKILLS

Game Dev	Unity
CS	Data Structures, Algorithms, MySQL
Tools	Unity, Git, Tensorflow
Languages	Python, C++, C, SQL

## → ACADEMIC PROJECTS

Real time unmasking of masked faces on edge device (FYP) (2021 - Present)  
We have to implement a model which is capable of unmasking of masked faces in real time using a edge device. We have implemented it on Intel Neural Stick.  
Unity Game Development (2021 - Present)  
I have developed more than 20 games in Unity among which Color Switch, aa and Fruit Ninja replicas are of notable mentions.

### Achievements

Unity Junior Programmer (2021)  
Microsoft Word Certified (2020)  
Math expert on Photomath (2020)  
Eco Internship Programme (2020)

### Community Involvement

WWF Eco Intern  
I, with a team, started digital advocacy campaign for creating awareness about climate change. We created a page on Facebook and Instagram with the name 'Heal the Healer'.

### Extra Curricular Activities

IEEE SEECS (2020 - 2021)  
I was a director of marketing in IEEE SEECS leading a team of 10 marketing executives and 1 deputy director marketing.

# Muhammad Bin Azhar

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**Career Objectives**

## → EDUCATION

2022	BE Electrical	NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY
2018	A-levels	FFC Grammar H/S School
Year	Degree	Institute

## → WORK EXPERIENCE

JUN 2021 Current INFORMATION PROCESSING AND TRANSMISSION LAB  
Research Assistant  
Executed multiple Reinforcement learning models for performance analysis and optimization of HetNets with appreciable reduction in computational power requirement.

DEC 2020 JUN 2021 UNILEVER TALENT HUNT / GLOBAL FUTURE LEADER  
Designed a novel vertical environment friendly silk sachet for Lipton tea bag. Made a business model, supply chain and marketing strategy for the product. Presented and defended our product in front of leadership team from Unilever. Represented Pakistan in the Future Leaders League Global Finals held virtually

## → PROFESSIONAL & TECHNICAL SKILLS

CS	Data Science
EE	MATLAB / Simulink
Management	Project Management
CS	C / C++

## → ACADEMIC PROJECTS

Chat Client using UDP packets  
Multi-user simultaneous chat box using socket library in Python, created handshake protocol and analyzed the packets using Wireshark.  
RSA Encryption Algorithm  
Wrote the RSA algorithm for asymmetric cryptography from scratch in C with

### Achievements

OpenCV AI Competition  
International finalist  
Our proposal on the application of OAK-D camera was chosen from over 1400 submissions around the world.  
Undergraduate Excellence Scholarship for 3 semesters  
Attained the second highest semester GPA in the batch.  
Best Among 4 subjects Cambridge

### Community Involvement

General Secretary Women in Engineering (DEC 2019 DEC 2020)  
Conducted workshops and seminars on Women empowerment and executed STAR program where awareness about STEM programs was given in girls only schools.Akhuwat Summer Intern (MAY 2019 JUN 2019)  
Month long community service internship where we renovated a school built street stores in outskirts

### Extra Curricular Activities

Senior Vice President ICMAC 21 Student Organizing Committee (DEC 2021)  
Managed 9 portfolios of an international conference on where the chief guest was the president of Pakistan.  
There were 65 papers published with 6 keynote speeches and 4 industrial talks on RF and microwave technology with a accumulated participation of 500+ researchers during 2 days.  
Chair RAS IEEE Student Chapter



# Muhammad Hamza Munir

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## Career Objectives

Highly motivated and committed individual with a passion for technology and knowledge. Possess excellent organizational and communication skills. Confident at resolving tasks like problem solving and trouble shooting. With help from previous experience polished my technical skills and developed the flexibility to adapt to changing

## EDUCATION

2022	BEE	National University of Sciences & Technology
2017	FSc	Fauji Foundation College for Boys, New Lalazar, Rwp Cantt
2015	Matric	Army Public School & College for Boys, Westridge III, Rwp

## WORK EXPERIENCE

06/2021 08/2021 Electromechanical Systems Lab, NUST

Designed a simulation of regulated DC supply of 50 volts under the supervision of my Final Year Project advisor Dr. Farid Gul and Lab Engineer Yasir Rizwan in collaboration with Sui Gas to prevent gas pipelines from corrosion.

09/2020 10/2020 OGDCL Dakhni Gas Processing Plant

Involved in the supervisory and maintenance role for the Electrical and Instrumentation department in Dakhni Gas Processing Plant.

## PROFESSIONAL & TECHNICAL SKILLS

Hardware	PCB Board Designing, Breadboard Circuits Patching, PLC
Hardware	Analysis of high voltage power systems using LVDAM
Software	Matlab, Power World Simulator, LogixPro, LabVIEW, Atmel
Software	AutoCAD, MPLAB, Modelsim, Proteus, Simulink, Arduino

## ACADEMIC PROJECTS

Virtual Synchronous Generator  
Regulated DC Supply on MATLAB, Fire Alarm System on LabVIEW  
4-bit Number Crunching Machine  
Interfacing a 16x2 LCD with an ATmega16a, Vending Machine (Mealy)  
Class Data Management System in C++, EE calculator in C



### Achievements

2x High GPA scholarship awardee  
Selected for English Access  
Microscholarship Program

### Community Involvement

RUn food donation drive for CSL  
Project 1.  
Teaching at Master Ayub School.

### Extra Curricular Activities

Mentor-Australian Indigenous  
Mentoring Experience (AIME)  
Executive (Admin Events)-SGA  
Executive (Finance)-YES

# Muhammad Hamza Nisar

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## Career Objectives

Diligent Electrical Engineer hoping to make use of strong technical skills and knowledge learned through experience to bring innovations.

## EDUCATION

2016	Matriculation	Shining Star Public School
2018	F.Sc	FG Sir Syed
2022	BEEE	National University of Sciences and Technology

## WORK EXPERIENCE

03/2022 04/2022 Islamabad Electric Supply Company

Learned about the Grid Station Equipment operation and maintenance, as well as the protection and testing of transformers, relays, and connections.

06/2019 07/2019 Pakistan Meteorological Department

Analyzed weather forecasting by assessing various instruments and their functions and drafted a report.

## PROFESSIONAL & TECHNICAL SKILLS

Power Domain	Designing, Maintenance and Protection of Power Stations
Microwave Domain	Designing and Analysing of Antennas
Softwares	Matlab, Simulink, Proteus, Pspice, Labview, LogixPro
Soft Skills	Leadership, Teamwork, Communication, Management

## ACADEMIC PROJECTS

Final Year Project: A Bidirectional Vehicle to Grid(V2G) Energy Transfer System  
Semester Project: Fixed and Variable DC Power Supply  
Semester Project: Highway Speed Checker  
Semester Project: Human Body Parameters Monitoring System  
Semester Project: Library Management System



### Achievements

- 1st Position in School in Matriculation (2016)
- 3rd Position in 5th grade in District Attock in Punjab Board.

### Community Involvement

- Volunteering Blood Donation
- Clothes Donation Drive

### Extra Curricular Activities

- Marketing Executive at NUST Archery Club (NAC) and SEecs Student Government Association (SGA).
- Director Social Media at IEEE-SEecs.
- SEecs Cricket Team Player
- Football Player



# SARAH RAUF

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## Career Objectives

I am Sarah Rauf, Final year student of BS in Electrical Engineering at NUST, Islamabad. I have developed various skills and knowledge in the fields of power, machine learning, programming and industrial process control. I hope to find a suitable job where i can apply my primary knowledge and skills and acquire more knowledge and polish my skills.

## EDUCATION

2022	Electrical En	NUST
2017	A Levels	Bangladesh International School, Dammam, Saudi Arabia
2014	O Levels	Bangladesh International School, Dammam, Saudi Arabia

## WORK EXPERIENCE

08/2021 09/2021 PTCL

06/2019 present Chadar

Processing head at Chadar. Chadar is a private Community Service Society at NUST that provides food, clothes, stationery, medical care and education to the people in need.

## PROFESSIONAL & TECHNICAL SKILLS

Engineering	Analytical thinking and AutoCAD, MATLAB, Simulink
Engineering	Proteus, ADS, PSpice, Octave, C, C++, Python
Management	Effective documentation, strategic communication
Management	Statistical data analysis, coding, MS office, ATmel studio

## ACADEMIC PROJECTS

- \* Frequency Division Multiplexing
- \* Smart Under-frequency Load Shedding System (FYP)
- \* Street Store
- \* 'Sicurezza is a need'
- \* Hang Man

### Achievements

- \* Certificate for Street Store Chadar
- \* Certificate for organizing Welcome 2K19
- \* Stage management in NUST Dramatics Club
- \* Executive at SEECS Student Government Association

### Community Involvement

- \* Community Service Learning project:
  - 1. Iftar drive for labors
  - 2. Installation of water cooler in a Mosque
- \* Chadar: Organized Street Store in which we collected and distributed clothes among the poor several times during our degree.

### Extra Curricular Activities

- \* Volunteer Work
- \* Reading novels
- \* Travelling
- \* Social Media



# SYED MUTAHIR ALI

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## Career Objectives

I am an ambitious Electrical Engineer with a major in Power and Embedded systems, seeking an entry-level position to begin my career in a high-level professional environment. I am an expert at managing different power systems, capable of handling multiple projects at a time with minimum supervision. I will fully utilize my training, data assimilation, and interpersonal skills while making a significant contribution to the success of the company.

## EDUCATION

2022	Bachelor	National University Of Science And Technology, Islamabad
2018	FSc	FG Sir Syed College, The Mall, Rawalpindi
2016	Matric	Army Public School for Boys, Westridge # 3, Rawalpindi

## WORK EXPERIENCE

2020 2021 SYSTEM OPTIMISATION LAB, SEECS

Designing, modelling, and simulation of Interleaved Boost Converter. Development of Control strategy to ensure the stable voltage of the converter.

2019 2020 NUST Cyber Security Club

Recruitment of students in the society. Function and Evaluation of the assigned tasks. Organized Webinars.

## PROFESSIONAL & TECHNICAL SKILLS

Hardskill	Circuit Designing and Analysis, Proteus
Programming	C, C++, Python, Verilog, Matlab, Simulink
Professional	Mutisim, PS pice, LABVIEW, TInkerCAD
Soft skills	Teamwork ,Critical thinking and problem solving

## ACADEMIC PROJECTS

- 1- Construction of variable Frequency Drive for Three Phase Induction Motor.
- 2- Water Stress Detection Using Metrological Data.
- 3- Interleaved Boost Converter Designing
- 4- Smart switch
- 5- Campus Management System

### Achievements

- 1- Certificate of Appreciation for Lecturer in SEECS Academic Club.
- 2- Certificate of Appreciation for contribution in HL 7 Annual Symposium as the Head of Ushers.
- 3- Academic Excellence award from FG Sir Syed College in HSSC-1.
- 4- A+++ award for securing 95% marks in SSC-1 (APSACS).

### Community Involvement

- 1- Food Drive with CHADDAR, NUST.
- 2- Ramadhan Mehrban Dastarkhwan
- 3- Attended 6 Community Service Learning (CSL) Workshop.

### Extra Curricular Activities

- 1- Playing Cricket and Football.
- 2- Reading Islamic literature.
- 3- Plantation and Gardening.
- 4- Playing video games.
- 5- Watching documentaries related to history and nature



# Muhammad Riyyan Khan

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## Career Objectives

I aim to attain an engaging position in the field of Data Analytics and Engineering. I hope to work under seniors and experts. Enthusiastic about Machine Learning and Data Science.

## EDUCATION

2022 BE-EE NUST-SEECS  
2018 FSC-Pre En; GDC SRE MAJEED , Stadium Road, Karachi  
2016 Matric Karachi Public School

## WORK EXPERIENCE

2022 2022 Dawlance - Intern  
- Streamlined the energy consumption data coming in from multiple sources.  
- Optimized energy consumption of the factory by studying and analyzing the energy leaking processes.  
2022 2022 HBL-Intern  
- Automated the Software Requisition Forms of the organization using Microsoft Power Automate and other technologies.

## PROFESSIONAL & TECHNICAL SKILLS

ML Python  
ML Scikitt Learn, Numpy, Pandas  
EE Matlab  
Soft Skill Adaptability , Communication Skills

## ACADEMIC PROJECTS

- Banking Management System  
- Sentiment Analyzer  
- Tea Maker

### Achievements

Dawlance Top Intern 2021

### Community Involvement

Director Project Insaniyat 19  
Akuhwat Clothes Bank Ambassador

### Extra Curricular Activities

Director Graphics IEEE-SEECS

# Muhammad Asad Khalil Rao

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## Career Objectives

I am looking for an opportunity in the domains of industrial Automation. My technical strengths include Circuit Designing, PCB Designing, Arduino Programming and Microcontrollers and I want to get a role where I get the opportunity of hands -on work on these technologies and tools.

## EDUCATION

2022 BEE School of Electrical Engineering & Computer Science

## WORK EXPERIENCE

June 4, 2022 August 5, 2022 Electro mechanical System  
Designing Switch Mode Power supply.  
Mitigating Harmonics into the grid  
Designing microcontroller

### Achievements

### Community Involvement

Visit to Orphanage

### Extra Curricular Activities

Horse Riding  
Swimming  
Table Tennis

## PROFESSIONAL & TECHNICAL SKILLS

EE Matlab and Team management skills  
EE Python and Leadership  
EE Octave and communication  
EE Pspice and Team work

## ACADEMIC PROJECTS

Electronic Piano  
Designing SEPIC Converter  
Switch Mode Power Supply



Syed Sheheryar Umair

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Career Objectives  
A motivated and organized individual seeking to work in a challenging environment where I can enhance my technical-interpersonal skills along with contributing to the growth of the organization.

→ EDUCATION

2022 BE Elect National University of Sciences and Technology  
2017 A-Levels Roots IVY  
2015 O-Levels Roots IVY

→ WORK EXPERIENCE

7/2021 8/2021 Fatima Group  
Worked closely with engineers and assisted them in their daily tasks. Learned about the industrial instrumentation installed in the plant and application of PLCs, DCS, and annunciator panels.

6/2021 7/2021 Pak Elektron Limited  
Undergone Virtual Internship Program in Distribution Transformer Department. Learned about transformer design, manufacturing, I&QC, and maintenance.

→ PROFESSIONAL & TECHNICAL SKILLS

Programming C/C++  
PLC RS Logix  
Embedded Verilog  
Power and Control Matlab/Simulink

→ ACADEMIC PROJECTS

Design of Non-Linear Control Algorithm for Electric Vehicle:  
Using this algorithm, the DC bus voltage would be regulated with addition to load current tracking

Achievements

Was student of year twice in my primary school. Additionally, scored a merit position in A-Levels AICE Diploma.

Community Involvement

Worked as an executive in Chadar Street School , where I was tasked to provide education to underprivileged children with basic life skills training.

Extra Curricular Activities

Read books/current affairs and play cricket in leisure time.

FULL NAME: Syed Talah Imam

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LinkedIn profile LinkedIn ID: N/A

Career Objectives  
An aspiring student with a love for computer engineering looking to make a career in IC design, digital design, and domain-specific architectures by employing relevant experience and utilizing a strong passion for innovative work.

→ EDUCATION

2022 BSEE NUST SEECS  
2018 A Levels Nixor College  
2016 O Levels Foundation Public School

→ WORK EXPERIENCE

From '21 To '22 IC Desing Lab NUST(Jr Research Assistant)  
Responsible for designing the RTL verification framework for a 32-bit IMF RISC-V processor. Integrated various RTL blocks and tested them against synthetic stress tests.

From '16 To '17 Teaching Assistant- Nixor College  
Responsible for providing one-to-one academic assistance to students for designated hours.

→ PROFESSIONAL & TECHNICAL SKILLS

Digital Design Verilog HDL  
Digital Design RTL Verification  
Embedded Systems Embedded C, Embedded Linux, Assembly  
Digital Design SoC System Design on the Intel Platform Designer

→ ACADEMIC PROJECTS

-Implemented the NVIDIA open-source Deep Learning accelerator on an SoC FPGA  
-Designed a 32 bit, integer, 5 stage, pipelined processor based on the RISC-V ISA.  
-FreeRTOS embedded system for gas-leak detection.

Achievements

Part of the team to work on the project for the indigenous RISC-V processor developed in NUST-SEECS.

Community Involvement

Extra Curricular Activities

Director Publications- IEEE-Seecs



# FULL NAME Muhammad Mazoon Mohsin

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## Career Objectives

I am a bright student of National University of Science and Technology (NUST). I am currently doing my studies in power domain. I have interest in power analysis in high end machinery. I understand power flow and its generation in power generation station.

## EDUCATION

2016	Matric	LDA Model High School, Iqbal Town, Lahore
2018	Inter	Government College , Lahore
2022	Bachelor	National University of Science and Technology (NUST), Islamabad

## WORK EXPERIENCE

2020-06-01 2020-07-31 Pivot Engineering Tech  
Designing of switchgear, DOL, ASD, MCC Panel, VFD based panel

## PROFESSIONAL & TECHNICAL SKILLS

Simulations	Proteus, MATLAB, Simulink, Multisim
Programming	C, C++, Python
Typing	MS Word, MS Powerpoint
Communication	Good Listener, Punctual and Responsible

## ACADEMIC PROJECTS

Matrix solver, Child Monitoring System, Exhaust Control using IR sensor, 4-Bit Crunching Machine, Boost Converter, Fault Detection (Software), Maximum Power Point Tracking (MPPT)



### Achievements

Trophies, Shields, Laptop  
Identified a problem and solved it,  
Come up with a new idea that  
improved things

### Community Involvement

Donations  
Ration Drives  
Street Cleanup

### Extra Curricular Activities

Sports, Video Game, Jogging,  
Driving, Social Media

# Huzaiifa Saleem

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## Career Objectives

Drive, hardworking, and dedicated individual with a passion for exploring and experience in general-purpose programming, digital logic and digital system design, microprocessor systems, and embedded system and hardware designs, looking to learn new things and develop myself professionally and grow to new heights.

## EDUCATION

2022	Bachelor's	National Institute of Sciences and Technology (NUST)
2018	A Levels	Jubail International School
2016	O levels	Jubail International School

## WORK EXPERIENCE

06/2021 09/2021 IC Design Lab (ICDL) - Intern  
Worked on the novel OpenCV AI Kit – Depth. Using a MyriadX chip, a Visual Processing Unit, the OAK-D is a new and emerging platform which aids in quick development, acceleration, and deployment of deep learning applications.  
09/2021 12/2021 ICMAC 2021 - President  
Led the administrative organization of the 1st IEEE International conference on microwaves (ICMAC 21) in Pakistan as president of its organizing committee. We had papers from over 20 countries, over 400 participants, and the President of Pakistan Dr Arif Alvi as the chief guest for the closing ceremony.

## PROFESSIONAL & TECHNICAL SKILLS

CS	C/C++/Python
CE	Verilog Design/Intel FPGAs
Soft/Management	Project and People Management
CE	FreeRTOS

## ACADEMIC PROJECTS

A C++ movie database. Std::vector based database using all OOP concepts such as encapsulation, inheritance, dynamic polymorphism, operator overloading, interface using abstract class. Includes unique numeric code generation for each movie to be used for organization, heapsort using max heaps, and quickO(log(n)) search through binary search.

### Achievements

Awards for recognition for multiple  
successful execution of major  
workshops and events.

### Community Involvement

Multiple community outreach  
programs with TABA Youth Chapter,  
NUST branch. Including orphanage  
visits, school visits, etc.

Volunteer work with Al Shifa Trust  
Eye Hospital

### Extra Curricular Activities

Chairperson IEEE-SEECS NUST  
Student Branch 2021

General Secretary IEEE-SEECS  
NUST Student Branch 2020

Sports

Reading



## Muhammad Ahmad Aljeelani

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### Career Objectives

To be an Electrical engineer with practical skills in all levels of testing including performance, functional integration of systems and user acceptance testing



### EDUCATION

2016	O'levels	Jinnah Highs School System
2018	FSc	Kips College
2022	Bachelor	National University of Science and Technology, Islamabad



### WORK EXPERIENCE

07/2021 08/2021 Al-Khwarizmi Institute of Computer Science (KICS)

Programmed different micro-controllers to achieve the desired solutions to different problems and tested the prototype

04/2021 06/2021 ZAMANA CONSULTING & ENGINEERING SERVICES

Led a sales team to achieve targets, input in marketing and sales strategies, and managed the implementation of the strategic decisions



### PROFESSIONAL & TECHNICAL SKILLS

Electrical Skills	PSpice, MultiSim, CST, LabView, Proteus, FreeRTOS,
Software Skills	Flutter, Firebase, Python, C++, Linux, Assembly, MATLAB
Hardware Skills	FPGA, Microcontrollers, Assembly, Lego, IoT, ModelSim
Soft Skills	Analytical, Interpersonal and Entrepreneurial Skills



### ACADEMIC PROJECTS

09/2021 – 05/2022 Aquaponics System (FYP)  
10/2020 – 05/2021 Optical Character Recognition (OCR) Based Speech Synthesis System Using LabVIEW  
09/2019 – 01/2020 Door Lock System  
02/2019 – 05/2019 Hospital Management System (HMS)



#### Achievements

Best speaker and debater  
Headed different events successfully including workshops, seminars and orphanage visits  
Won the house captain elections  
Winner of different science project events  
Did different individually driven projects successfully

#### Community Involvement

Donating blood and convincing others for thalassemia patients  
Girls Madrassa Renovation  
Worked as an executive in Community Services Club and collected donations for a long time  
Worked in Baseerat Foundation  
Worked in Blood Donation Society Pakistan  
Worked in character building society  
Worked individually for different people who approached me in need

#### Extra Curricular Activities

NUST IEEE Society, Executive Marketing  
NUST Youth Entrepreneurial Society, Executive Admin Events  
Chair ACM-W NUST Society  
NUST Bazm-e-Pakistan Society, Executive External Relations  
NUST Student Forum, Executive Admin Events  
TABA Youth Chapter NUST, Director Operations  
NUST BioReach Society, Executive Human Resource (HR)



## Rehman Afzal

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### Career Objectives

Aspiring Computer Engineer seeking an opportunity to join an Innovation and Development oriented environment. Interested in Software Development and Embedded Design.



### EDUCATION

2022	BEE	National University of Sciences and Technology, Islamabad
2017	HSSC	Govt. College of Science, Wahdat road, Lahore
2015	SSC	Himiyat-e-Islam Higher Secondary School, Lahore



### WORK EXPERIENCE

From	To	Organization
N/A		

From	To	Organization
N/A		



### PROFESSIONAL & TECHNICAL SKILLS

Business	Project Management
Business	Problem Solving
IT	C++
IT	JavaScript



### ACADEMIC PROJECTS

IOT NETWORK FOR AQUAPONICS FARM:  
FYP Project to build and IOT Network for aquaponics farm and control it using Mobile Application  
MATRIX CALCULATOR:  
Matric Calculator using OOP concepts in C++

#### Achievements

Secured 3rd position in college in HSSC Exams

#### Community Involvement

Help new students to pass entry test exams by providing free coaching and mockup tests using website

#### Extra Curricular Activities

Interest in Book reading and swimming



# EHSAN LATIF

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## Career Objectives

Looking for a challenging role in one of the following fields of Power, Microwave Engineering or Management to utilize my engineering and management skills to contribute in company's growth as well as to enhance my knowledge by exploring new things.

## EDUCATION

2022	BEE	NUST School of Electrical Engineering & Computer Science
2018	F.Sc	Punjab Group of Colleges Chishtian
2016	Matric	Tameer-e-Watan Public High School

## WORK EXPERIENCE

05/07/22 03/09/22 Microwave Design Lab (MDL) RIMMS-NUST Islamabad  
Research and working on Radar Modules Acconeer XM112 & TI AWR 2243 to get hands-on experience on modern day milli-meter wave technology radar modules.

## PROFESSIONAL & TECHNICAL SKILLS

Electrical	PSpice (Simulation software for electrical circuits)
Electrical	Multisim (Simulation software for electrical circuits))
Electrical	ADS (Simulation software for microwave circuits )
Electrical	LabVIEW and MATLAB

## ACADEMIC PROJECTS

- 1- CabSafe: In-Cabin Monitoring of Vehicles using mm- Wave Radar (FYP)  
Monitoring and classification of human sitting in a car cabin to keep a check eye on driver's drowsiness and child vehicular heat stroke.
- 2- Campus Management System (Semester project)
- 3- Obstacle Avoiding Car (Semester project)

### Achievements

- 1- Got 3rd position in Intermediate (F.Sc Pre-Engineering) boys from BISE Bahawalpur.
- 2- Merit Certificate from Secretary BISE Bahawalpur.
- 3- Merit Certificate from Chief Minister Punjab

### Community Involvement

- 1- Volunteer at Chadar.
- 2- Volunteer at TABA.
- 3- Volunteer at Baseerat Foundation.

### Extra Curricular Activities

- 1- Manager team Society Collaboration at NUST-SEECs Student Government Association(SGA)
- 2- Director team Admin Events at NUST BioReach Society.
- 3- Director team Marketing at NUST Cyber Security Club.
- 4- Actor at NUST Dramatics Club.
- 5- Deputy Director team Finance and Audit at NUST Fitness Club.



# FAHAD WAHEED

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## Career Objectives

To pursue a challenging career in a progressive and reputable organization where I can utilize my skills, abilities, knowledge and personal acumen in order to contribute to the development.

## EDUCATION

2022	BE	Electrical Engineering, SEECs - NUST, Islamabad
2017	FSC	F.G Sir Syed College, The Mall Saddar, Rawalpindi
2015	Matric	Hamza Army Public School, Hamza Campus Rawalpindi

## WORK EXPERIENCE

July-2021 Sep-2021 System Optimization Lab Seecs Nust  
Implemented 4 Cell Battery Management System through a Microcontroller.  
Implemented Passive Cell Balancing Technique.  
Monitored Voltages, Current, Temperature of a battery pack.  
  
June-2017 Sep-2017 J. Telemarketing  
Worked on United States Based Home Security Campaign.

## PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++, Verilog, Matlab, Simulink
Simulation Software	Pspice, Multisim, Proteus, LABVIEW, TinkerCad, AutoCAD
Soft Skills	Event Organizing, Collaboration, Team Management

## ACADEMIC PROJECTS

Battery Management System for Lithium Ion Battery Packs  
4-Bit Microprocessor  
Parking Management System  
Pharmacy Management System

### Achievements

- Top Representative for the Month at J. Telemarketing
- Top Representative for the Day at J. Telemarketing

### Community Involvement

- Community Service Workshops
- Project Insaniat
- Aftar Dastarkhwan
- Ack of Kindness Organization
- Chaddar Organization, NUST
- Food Donation Drive

### Extra Curricular Activities

- Deputy Director Human Resources at Youth Entrepreneurial Society
- Executive Human Resources at Nust Cyber Security Club
- Instructor at Nust Student Forum
- Executive Alumni Affairs at Seecs Government Association
- Table Tennis, Volley Ball, Gardening





# Ahmad Faizan Butt

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## Career Objectives

Seeking employment as an Electrical Engineer to use experiences with ensuring all electrical equipment functions efficiently and leading project teams for the benefit of company and use communication and team building skills as an Electrical Engineer for the company.

## EDUCATION

- 2016 Matriculation Science Foundation High School
- 2018 Intermediate Punjab College Sheikhupura.
- 2022 BEE National University of Science and Technology.

## WORK EXPERIENCE

July-21 August-21 Microwave Design Lab, SINES NUST  
Worked on applications of the antenna and embedded antenna-based solutions.

Jan-21 May-22 Freelance on Photomath  
Solve and review math problems on the Freelance platform PhotoMath.

## PROFESSIONAL & TECHNICAL SKILLS

- |             |   |
|-------------|---|
| Electrical  | Digital and logic Circuit Designing, Analysis and Simulation. |
| Microwave   | Microwave RF circuit Design analysis using ADS                |
| Antenna     | Antennae Design using CST                                     |
| Programming | Functional and Object-Oriented Programming in C++.            |

## ACADEMIC PROJECTS

Cab-Safe: In-Cabin Monitoring of Vehicles using mm-Wave Radar  
Design of 2.4 GHz Patch antenna using CST.  
Campus Managment System using C++.  
Path Finder Reboot using Digital Logic Design concets.

### Achievements

Honors, Awards or any other Worth Mentioning Achievements

### Community Involvement

Chaddar:  
Memeber of a welfare organization Chaddar which collect and distribute clothe among the poor people and also organize different drives to empower the community.

### Extra Curricular Activities

Cricket  
Football  
Basketball



# Faraz Amjad

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## Career Objectives

Seeking employment as an Electrical Engineer to use experiences with ensuring all electrical equipment functions efficiently and leading project teams for the benefit of company and use communication and team building skills as an Electrical Engineer for the company.

## EDUCATION

- 2016 Matriculation AL Faisal Grammar High School.
- 2018 Intermediate Punjab College of Science.
- 2022 BEE National University of Science and Technology.

## WORK EXPERIENCE

July-21 August-21 OCENTRA Engineering Services, Lahore.  
Management internee at Ocentra Engineering Services.

Jan-21 May-22 Freelance Circuit Designer and Data Analyst  
Teaching Students from grade one to 8th for the time period of two months. Arrange co-curricular activites and makin a report of individual student about their performance in different fields.

## PROFESSIONAL & TECHNICAL SKILLS

- |              |   |
|--------------|---|
| Electrical   | Digital and logic Circuit Designing, Analysis and Simulation. |
| Programming  | Functional and Object-Oriented Programming in C++.            |
| Data Science | Exploratory and Predictive Data Analysis using Excel.         |
| Embedded     | Verilog HDL synthesis and simulation for FPGA design.         |

## ACADEMIC PROJECTS

Low-Cost Smart Hybrid Inverter.  
Three Story Elevator using Logic Gates.  
Multiplayer Chess Game in C++.  
Multiplayer Battleship Game using C++.

### Achievements

Honors, Awards or any other Worth Mentioning Achievements

### Community Involvement

SOS Vllage Internship:  
Teaching Students from grade one to 8th for the time period of two months. Arrange co-curricular activites and makin a report of individual student about their performance in different fields.

### Extra Curricular Activities

Cricket  
Football  
Basketball



FULL NAME: Farheen Fatima

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Career Objectives

A highly conscientious individual capable of doing tasks efficiently, making the best use of analytical, innovative, and logical skills. Having the ability to update and learn new concepts quickly and competent to work with maximum potential in a challenging and dynamic environment. Motivated to offer quality standards and deliver significant results.

→ EDUCATION

2022	BEE	National University of Sciences and Technology, Islamabad
2018	Fsc	Government College for Women, Muzaffargarh
2016	Matric	Beacon Hall Girls Secondary School, Muzaffargarh

→ WORK EXPERIENCE

2/7/21	13/8/21	Pakistan Elektron Limited
Did a virtual internship at PEL Department of Marketing PD WAPDA and learned about electricity meters, transformers, and their types. I also got to know about manufacturing, sales operation, marketing and capitalization.		
19/6/19	18/7/19	NPGCL GENCO-III Thermal Power Station
Did an internship at a 1320 MW power station where I learned about the whole power plant-its different sections and their role and got to know about thermal power generation, generators, motors, transformers, grid etc.		

→ PROFESSIONAL & TECHNICAL SKILLS

Software	LogixPro, MS Visual Studio, MATLAB, PSpice, PSIM,
Software	Power World Simulator, Modelsim, LabVIEW, Autocad
Hardware	Programable Logic Controller, breadboard circuit patching
Hardware	LVDAC and LVDAM

→ ACADEMIC PROJECTS

FYP: Virtual Synchronous Generator (VSG)  
Project: Regulated DC Supply on MATLAB, Fire Alarm System on LabVIEW,  
Project: 4-Bit Number Crunching Machine,  
Project: Interfacing a 16x2 LCD with an ATmega 16a, Vending Machine (Mealy),  
Project: Class Data Management System in C++, EE calculator in C

Achievements

Gold Medalist: Awarded with the gold medal for securing 1st position in Pre-Engineering group in BISE D.G.Khan.

Merit scholarship by NUST: Securing merit scholarship by NUST consecutively for four semesters for outstanding grades.

Community Involvement

Run Food Donation Drive for CSL Project 1.  
  
Teaching at Master Ayub Street School for CSL Project 2.

Extra Curricular Activities

Mentor: Australian Indigenous Mentoring Experience (AIME), NUST Chapter  
  
Executive (Admin Events): Student Government Association (SGA),SEECS  
  
Executive (Admin Events): TABA Youth Chapter, NUST

Fatima Sohail

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LinkedIn profile

Career Objectives

To work in a dynamic environment and to be able to utilize the knowledge i have already gained in a responsible and proper manner.

→ EDUCATION

2022	Bachelors in	National University of Sciences and Technology
2018	A Levels	Beaconhouse School System
2016	O Levels	Beaconhouse School System

→ WORK EXPERIENCE

From	To	Organization
From	To	Organization

→ PROFESSIONAL & TECHNICAL SKILLS

Software	Autodesk Fusion 360/AutoCad
Software	MATLAB
Software	C/C++
Electrical	LabVIEW

→ ACADEMIC PROJECTS

EMG Signal-Driven Arm-Mounted Exoskeleton  
Tic-Tac-Toe in Python  
Chinese Checkers in C  
Visual Cryptography using Machine Learning

Achievements

Awarded merit scholarship during bachelors and A-levels

Community Involvement

St. Joseph's Hospice (Feb. – Mar. 2019)  
Helped elderly and disabled people with their routine work  
  
Government of Pakistan (Jul. – Aug. 2017)  
Taught students at a public school and tried to build a bridge between the international and local education system.

Extra Curricular Activities

Badminton  
Video games  
Photography



# Hajira Shafqat Bazaz

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## Career Objectives

Industrious engineering student with strong technical knowledge and management skills looking for growth and challenge opportunities in the domains of digital system design and embedded systems



## EDUCATION

2022 BE Electrical National University of Sciences and Technology, H-12, ISB

2018 A Levels Beaconhouse Tipu Sultan Campus, Islamabad, Pakistan

2016 O Levels Pakistan International School, Buraidah, Saudi Arabia



## WORK EXPERIENCE

05/2021 06/2021 AM Sales & Services

Completed GUI design and development of HMI for a hematology analyser

09/2021 till date ESDAC Lab, NUST-SEECs

Developing and improving DSP algorithms for displacement measurement by self-mixing interferometry



## PROFESSIONAL & TECHNICAL SKILLS

Soft Skills Communication skills | Adaptability | Attention to detail

Programming C/C++ | MATLAB | Python | AVR Assembly | Embedded C

Circuit design PSpice | PLC | Verilog HDL | Proteus



## ACADEMIC PROJECTS

Laser-based Nanometric Motion Measurement (DSP, FYP)  
ALMARI Preloved Goods Store (Entrepreneurship)  
Smart Traffic Control System (FreeRTOS, Embedded C)  
Line-Drawing via VGA adapter (Verilog HDL) Custom 4-bit Microprocessor (Digital Logic Design)  
Carbon Footprint Analyzer (C++)



# Hammad Ali

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## Career Objectives

I am passionate Electrical Engineer. I possess excellent communication and intrapersonal skills, and possess a wide range of technical skills.



## EDUCATION

2016 Matric Muslim Public School, Multan

2018 FSc Punjab Group of Colleges, Multan

2022 BEE NUST, Islamabad



## WORK EXPERIENCE

12-07-21 03-09-21 MEPCO, Multan

Worked as an internee at Grid Station

01-06-19 30-06-19 Idara e Taleem O Agahi

Providing social services for educational development



## PROFESSIONAL & TECHNICAL SKILLS

EE & Embedded Proteus

EE & Digital Arduino

Management Team Work & Time management

EE & Power Problem solving



## ACADEMIC PROJECTS

Speed Measuring System (Hardware implementation), Battery Management System (Hardware implementation), DC AC Inverter

Hybrid Alternate Energy System (Final Year Project)

## Achievements

Best Tech4Good pitch in Huawei SFTF Program 2021

3rd Place in IEEE R10 Student Branch Website Contest

Current Rank in Batch: 2

IELTS Band 8.0

## Community Involvement

WWF International Eco Internship (08/2017)

Volunteer at Chadar NUST's Street Store (04/2019)

Volunteer at TABA NUST's Orphanage Visit (10/2019)

Food Drive Volunteer for daily wagers (02/2022)

## Extra Curricular Activities

Press Secretary at community service society, Chadar NUST (06/2020 - Present)

Director Web & IT at IEEE-SEECs Student Branch (09/2019 - 08/2020)

Organiser at ExTRA-OPAL Conference 2019

Organiser at SEECs Open House 2019

## Achievements

-- Won laptop in CM Scheme over scoring 96.45% in matriculation

-- Won 100% scholarship at PGC and STEP Programmes

-- Won Benevolent scholarships in Matric, FSc and University

## Community Involvement

-- Has worked and gained experience in Rescue services

-- Worked as a volunteer in street school at Chaddar, NUST

-- Scouting training at Scouting Camp Ghora gali, Murree

## Extra Curricular Activities

-- Interest in Politics

-- Social Media

-- Wanderlust

## Achievements

-- Won laptop in CM Scheme over scoring 96.45% in matriculation

-- Won 100% scholarship at PGC and STEP Programmes

-- Won Benevolent scholarships in Matric, FSc and University

## Community Involvement

-- Has worked and gained experience in Rescue services

-- Worked as a volunteer in street school at Chaddar, NUST

-- Scouting training at Scouting Camp Ghora gali, Murree

## Extra Curricular Activities

-- Interest in Politics

-- Social Media

-- Wanderlust



Hamza Bin Mazhar

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Career Objectives  
An electrical engineering student with extensive interest in application based programming mostly related to Machine Learning, Computer Vision and Artificial Intelligence. I am open-minded and curious towards the assimilation of new information and technological advancements. I aim to utilize my diligence, motivation and strong interpersonal skills in the best interest of your organization.

→ EDUCATION

2022	Bachelor's	National University of Sciences and Technology (EE)
2018	FSc	FG Sir Syed College, The Mall , Rawalpindi, 955/1100
2016	Matric	Army Public School and Colleges System, Rawalpindi

→ WORK EXPERIENCE

1/08/2022 1/09/2022 Signal Processing and Machine Learning Lab SEECS  
Research Assistant for Lab, Feature Extraction and Facial Mask Identification usingYOLOv3,Cascade Classifiers with an emphasis on Haar Cascade Classifier, Implementation and Analysis of Deep Learning Models and Classifiers

→ PROFESSIONAL & TECHNICAL SKILLS

Artificial Intelligence	Computer Vision, TensorRT,OpenCV, NVIDIA Jetson Nano
Writing	Business Writing, Technical Writing
Vocational	Communication Skills
Social	Team Leadership and Collaboration

→ ACADEMIC PROJECTS

- 1) Crowd Control for COVID SOPs using Deep Learning and OpenCV
- 2) Fundamental Matrix using Point Correspondences in Stereo Images
- 3) Security System using FreeRTOS, Arduino Uno and STM32 Blackpill
- 4) Computer based Online Shopping Management Organizational System (COSMOS) in C

Achievements

Throughout my middle school, I secured the top positions in my school. I graduated high school with an A+ grade. During the university, my GPA for the first semester was amongst the top 10 GPAs of the whole class and I secured a 4/4 GPA in the fourth semester. As of now, my CGPA is 3.55. I also have an 8 band score in IELTS.

Community Involvement

I was part of the NUST Community Service Club for more than a year where we partook in activities pertaining to community relief and genera public welfare.

Furthermore, I was part of the Orphans kNOw more programme by NCSC, that was focused on spreading knowledge and organizing helping sessions for orphans.

Extra Curricular Activities

I have securedm multiple prizes in co-curricular and extra-curricular activities like sports, drama and debate competitions. I was also a part of, and achieved certificates from, multiple societies and clubs throughout the period of my studies.

Haris Ali

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Career Objectives  
I'm currently a student of Electrical Engineering in the School of Electrical Engineering and Computer Science (SEECS), NUST. Working in the field of machine and deep learning, I have been actively gaining experience in the area and plan to pursue them in the future. My main domains of interest are computer vision and natural language processing.

→ EDUCATION

2022	BE EE	National University of Sciences and Technology (NUST)
Year	Degree	Institute
Year	Degree	

→ WORK EXPERIENCE

Sep Current School of Electrical Engineering and Computer Science  
Research Assistance  
  
July Sep Artificial Intelligence and Data Analytics Lab, PSU, KSA  
Machine and Deep Learning Researcher

→ PROFESSIONAL & TECHNICAL SKILLS

Software	Python
Software	Machine Learning
Software	Computer Vision
Management	Adaptability

→ ACADEMIC PROJECTS

- 1. Matrix Calculator in C
- 2. Semantic Segmentation using Deep Learning in Autonomous Vehicles
- 3. Automatic Irrigation System

Achievements

Publication in IEEE Xplore

Community Involvement

Iftar Drive  
Meal packets distribution

Extra Curricular Activities





# Insha ur Rehman

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## Career Objectives

I am a student of Electrical Engineering at the National University of Sciences and Technology, Pakistan and a former Millennium Fellow for the Millennium Campus Network. I harbour ambitions to work in the corporate sector and have served as a manufacturing communications intern for Philip Morris International. I also work as a content writer, social media caption writer, and literary analyst in a freelancing capacity.

## EDUCATION

2022	Bachelor	National University of Sciences and Technology
2018	A Level	Lahore Grammar School, Islamabad
2016	O Level	St. Patrick's High School, Karachi

## WORK EXPERIENCE

2021	Philip Morris International	
Cleared out the multiple stages of recruitment to be selected out of over 5000 candidates for the paid INKOMPASS Internship. Based in the Sahiwal factory, I worked in the Communications department for manufacturing operations.		
2020	2021	NUST SEECS Student Government Association
Selected as the Press & Media Secretary for the academic year 2020-2021. Oversaw the Teams of Graphics, Publications, Social Media & Marketing, and Media, Videography & Coverage, and coordinated with other OBs for events.		

## PROFESSIONAL & TECHNICAL SKILLS

Engineering	MATLAB, Python
Technical	Technical Writing, Proofreading, Editing
Management	Communication, Leadership
General	English, MS Office, Singing, Guitars, Music Theory

## ACADEMIC PROJECTS

Final Year Project:  
Incremental Conductance Based Maximum Power Point Tracking for High Output Photovoltaics

### Achievements

Certifications: Programming for Everybody (Getting Started with Python), Excel Skills for Business: Essentials, The Art of Music Production, MATLAB Onramp

### Community Involvement

Millennium Fellow - United Nations Academic Impact  
Intern - Australian Indigenous Mentoring Experience (AIME)

### Extra Curricular Activities

SEECS Orientation '21 - Performer, SEECS Volleyball League '21 – Participant, NUST Environment Club – Director Publications, NIMUN '19 – Assistant Committee Director, IEEE – SEECS Chapter – Executive Publications, SEECS Welcome '19 – Director Publications, SEECS Farewell '19 - Performer



# Iram Fatima Aulakh

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## Career Objectives

A tenacious and emotionally intelligent electrical engineer with strong managerial and technical skills. passionate about UN's SDGs. Currently leveraging my skills toward a sustainable agriculture solution with a high social impact contributing to SDGs 7, 12, and 2. Aiming to enhance my proficiency in engineering methods, tools, and techniques in Power and Control Systems

## EDUCATION

2022	BE Electrica	National Univeristy of Sciences and Technology
2018	Inter	Punjab College Vehari
2016	Matric	The Public School Vehari

## WORK EXPERIENCE

07/2021	09/2021	System Analysis and Verification (SAVe) Lab
Designed innovative solar dehydrator Did dynamic modeling of subsystems Effectively implemented control strategy and developed IoT mobile application		
09/2020	10/2020	Oil and Gas Development Company (OGDCL)
Visited Dakhni Gas Processing Plant, analyzed the electrical machinery used on-site and enhanced my presentation skills by presenting a report to Process and Plant Department		

## PROFESSIONAL & TECHNICAL SKILLS

Languages	C/C++, Python, HTML & CSS
Tools	Arduino IDE, MS Office, MATLAB, Proteus, Animaker
	Visual Studio, LabView, PSpice
Others	Adaptable, Competitive, Deadline-driven, Highly Organized

## ACADEMIC PROJECTS

Solar-Based Dehydrating System for Food Preservation  
Custom 4-bit Microprocessor  
Smart AC Controller  
DC-DC Buck-Boost Converter  
Hangman Game using C, E-commerce Website using .NET and C#

### Achievements

-Acceptance of grant by Efficiency for Access Design Challenge  
-Start-up Competition winner in National Expansion Plan of NICS Rawalpindi Launchpad  
-Finalist in FICS NUST 2022  
-Merit-based Scholarship in Bachelors program  
-Position Holder of Multan Board

### Community Involvement

-Mentored high school student under Mentorship Program of Australian Indigenous Mentoring Experience (AIME) Imagination University  
-Food Drives  
-Fundraising for Construction of a Mosque (03/2022 - Present)  
-Team Chiragh - Covid Awareness (05/2020 - 06/2021)  
-Project Insaniyat (02/2019 -03/2019)

### Extra Curricular Activities

-Director Human Resource at DroneX NUST(05/2021-Present)  
-Deputy Director Internal Management IEEE-SEECS Student Branch (01/2021 - 08/2021)  
-Director Human Resource NUST Cyber Security Club (09/2020 - 09/2021)  
-Executive Web and IT IEEE-SEECS Student Branch (09/2020 - 12/2020)



# JIBRAN ZIA

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## Career Objectives

Self-motivated Electrical Engineer with strong academic background seeking a challenging position to utilize and develop skills in the reputable Organization.

## EDUCATION

2022	BEE	Electrical Engineering, SEECS NUST
2018	FSc	FSc. Pre-Engineering, Punjab College (PCIT)
2016	SSC	Authentic Public Secondary school, Rawalpindi

## WORK EXPERIENCE

5/7/2021 3/9/2021 System Optimization Lab (SOL), NUST SEECS  
Worked as a Research Intern on Battery Management System for Lithium-Ion Battery pack in summer break.

1/6/2021 15/9/2021 Prime BPO, telemarketing company  
As a Customer Service Representative (CSR), I worked on US-based lead generation for Final Expense Insurance plan

## PROFESSIONAL & TECHNICAL SKILLS

Hardware Skill	Pspice, Multisim, Proteus, LABVIEW, TinkerCad, AutoCAD
Programming	C, C++, Verilog, Matlab, Simulink, Assembly language
Soft Skills	Team Management, Salesmanship, Leadership
Technical Skills	Circuit designing, PCB layout designing, Adobe suit

## ACADEMIC PROJECTS

- 1- Battery Management System for Li-Ion Battery pack (Final Year Project)
- 2- Speedometer (Calculating Speed of car using Velocity and Distance)
- 3- LCD Interfacing with ATMEGA16A(Using Assembly language in Atmel Studio)
- 4- 12V DC to 220V AC Inverter (MATLAB for the Simulation)
- 5- Matrix Solver Calculator (Using C Language)
- 6- Supermarket Billing System (Using C++ Language)

## Achievements

- 1- Secured 35 Position in SSC exams
- 2- Won Merit Scholarships in SSC and HSSC Exams
- 3- Among Top 10 Position Holders in HSSC
- 4- Awarded by 2 Laptops in recognition of Academic Achievement
- 5- Top seller at telemarketing company (US-based Insurance plan)

## Community Involvement

- 1- Attended 6 Community Service Learning (CSL) Workshops
- 2- Project Insaniyat
- 3- Ramadan Mehrban Dastarkhwan
- 4- Active participant of Ack of Kindness (AOK) Organization
- 5- Food Donation Drive with Chaddar Organization, NUST

## Extra Curricular Activities

- 1- Graphic Designer on freelancing marketplaces
- 2- Joint Secretary at SGA/NSF and Cyber Security society, NUST
- 3- Social media marketing at Skylift Marketing, marketing agency



# Kainat Khalid

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## Career Objectives

Want to work on a challenging leadership position where I can apply my creative problem solving skills which exposes me to professional work requirements and helps me to maximize my potential.

## EDUCATION

2023	BE Electrica	NUST H-12, Islamabad
2019	FSc	Punjab Group of College for Women F-8/4
2017	Matriculati	Islamabad Model College for Girls F-8/1

## WORK EXPERIENCE

15 March April2022 Ripple Match  
Worked as a Tracker Specialist who handles the sign ups of the candidates coming from the recruiter team.

## PROFESSIONAL & TECHNICAL SKILLS

Programming	Matlab,C++,C,Python and Assembly Language
Softwares	Proteus,Pspice,Kiel Vision ,Modelsim and Adobe Illustrator
MS office	Word,Powerpoint and Excel
Workshop	Basic workshop skills

## ACADEMIC PROJECTS

- Event management Program in OOP  
C programming quiz test program  
Automatic room system in Proteus  
Parallel combination of two sets of three phase transformer  
FM modulation and Demodulation (hardware)





# Khurram Zia

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## Career Objectives

I am an ambitious person who is passionate about working in a power engineering sector. I consider myself as a dedicated and responsible individual who is willing to work for an organization in the best possible way by utilizing my potential. Honesty and hard work have always been my top priorities and I believe that these two elements play an important in making a person successful.

## EDUCATION

2016	O levels	The City School Nawabshah Campus
2018	A levels	The City School Ravi Campus Lahore
2022	BE	National University of Sciences and Technology (NUST)

## WORK EXPERIENCE

July 2021 Sep 2021 System Optimization Lab (SOL) -SEECs (NUST)  
- Research Intern  
Worked on a product-based project 'Solar-based Dehydrating System for Food Preservation'.

Sep 2015 May2016 The City School Nawabshah Campus  
- Teacher Assistant  
Taught multiple courses which includes Physics,Chemistry.

## PROFESSIONAL & TECHNICAL SKILLS

EE	MATLAB
CS	C++
EE	Power World Simulator
EE	Pspice

## ACADEMIC PROJECTS

-Solar Based Dehydrating System for Food Preservation  
-Flyback Converter  
-Buck-Boost Converter  
-Car Theft Protector

### Achievements

National Expansion Plan of NICS - Won the Launchpad (Competition) for initiating the final year project as a start up - 2022  
Efficiency for Access DesignChallenge UK- Grantee for FYP - 2022  
British American Tobacco - Runner up in the Battle of minds

### Community Involvement

-Iftar Drive by Acts of Kindness in G-9 (2022)  
Worked as a Volunteer.  
-Food Drive in sector I-10 (2022) (Community Service Learning Projecr)

### Extra Curricular Activities

Nust Student Forum (NSF)  
- Instructor  
Taught core Electrical Engineering course.

TEDX'19  
- Executive (Team Registrations)  
Organized annual Ted talk at NUST.

FICS'20  
-Director Finance.



# Khuzaeymah Bin Nasir

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## Career Objectives

I want to excel in the field of Embedded Systems, designing practical systems and integrating those systems with Machine Learning Models to deploy in various Technology Leading platforms in the industry to have efficient Real-time Edge AI products and solutions.

## EDUCATION

2022	BEE	SEECs, NUST H-12, ISLAMABAD
2018	Inter	OPF BOYS COLLEGE H-8/4 ISLAMABAD
2016	Matric	OPF BOYS COLLEGE H-8/4 ISLAMABAD

## WORK EXPERIENCE

04/2022 Present Crowdception

Working as an Embedded Software Engineer on an NDA Machine Learning project that is to be deployed on Hardware platforms to attain real-time performance.

06/2020 Present TUKL Deep Learning Lab, NCAI

Working as a Research Intern and carrying out my Final Year Project titled; "Efficient Deployment of 3D Point Cloud Classification Techniques on FPGA"  
I lead a team which works on acceleration and optimization CNN/BNNs

## PROFESSIONAL & TECHNICAL SKILLS

Digital Design	Verilog, VHDL, Vivado HLS, Intel Quartus, RTOS
Electronics	Multisim, SPICE, Proteus, CAD
Machine Learning	NLP, Transformers, BNN, CNNs, Linux
Networking	Wireshark, PuTTY, Python

## ACADEMIC PROJECTS

Developed a custom binarized CNN architecture in Pytorch and implemented it on Xilinx Pynq Z1 using the FINN C++ framework.  
A Remote Robot Controlled using microcontrollers in RTOS.  
Producer-Consumer Model implemented in Ubuntu.  
Offside-Line Detection using different Computer Vision Algorithms on live video.

### Achievements

Selected to represent Pakistan in CMC Quiz Mania 5 in South Asian Quiz Contest in 2016

Co-Author of a Research Paper submitted to IJDAR Conference

### Community Involvement

Arrangement for Aftaar amongst needy neighbourhoods during Ramadan

Maintenance of a Girls Madrassah collected over 0.2 million PKR

Community Empowerment, paying school college fee for needy students

### Extra Curricular Activities

Essay Competition winner at International Space Week, IST Islamabad in 2016 and 2017

Inter School Debate Contest Winner 2018

Runner Up: PTCL Idea Hackathon 2020

NUST Basketball Champion in 2019 and 2021



## LAYBA ASIM

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LinkedIn profile <https://www.linkedin.com/in/layba-asim-b82811190/>

### Career Objectives

A methodical and valiant individual with managerial skills looking for a supply chain or product manager position. Interested in embedded systems design and signal processing.



## EDUCATION

2022 BE Electrical NUST - SEECS

2018 FSc Punjab College Lahore

2016 Matriculation KIPSchool, Lahore



## WORK EXPERIENCE

Jul-202 Aug-2021 PTCL

Engineering Intern at PTCL Skill based Internship Program  
- Learned Data Processing and analysis, and Dashboards in MS Excel.  
- Developed Communication Plan for the Testing department

Dec-2020 Jan-2021 Hatric Solutions Pvt Ltd.

Graphic Designer Intern  
- Designed Posters for Hatric's clients  
link to portfolio: <https://bit.ly/laybaportfolio>



## PROFESSIONAL & TECHNICAL SKILLS

Signal Processing MATLAB

Embedded System Arduino Programming , C/C++ , Verilog HDL

Graphic Designing Adobe Illustrator, Canva

Administration Confident, Leadership skills, MS Powerpoint & Word



## ACADEMIC PROJECTS

LASER-BASED NANOMETRIC MOTION MEASUREMENT - FYP  
Provide an improved method to reconstruct the displacement of a remote vibrating target with nanometric precision.

HANDY DANDY SMART WHEELCHAIR

A Real-Time System that controls the motion of the wheelchair by hand gestures and is smart enough to detect an obstacle.



### Achievements

President NUST Adventure Club  
2021-2022

### Community Involvement

- Social Media Manager Chadar
- ECO Intern WWF
- Summer Camp Intern The Citizen Foundation (TCF)
- Project Insaniyat' 19 Fund Raising for UN SDG

### Extra Curricular Activities

- General Secretary NUST Adventure Club (NAC)
- Chairperson Women In Engineering (WIE) IEEE- SEECS
- Director Security & Protocols TedxNUST
- Orientation Guide Orientation NUST'19



## Muhammad Junaid Anees

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### Career Objectives

An aspiring Electrical Engineer looking for an opportunity to learn and make my impact on the industry with my majors in Power, Communication Networks and Control Systems.



## EDUCATION

2022 Bachelors in National University of Science & Technology.

2018 Intermediat Punjab group of Colleges.

2016 Matric Divisional Public School.



## WORK EXPERIENCE

17-07-19 25-08-19 WWF-Pakistan

Attended the Eco-Internship program offered by WWF-Pakistan. In this internship we had interaction with other students. It was related to community services learning. We also carried out a project as a team.



### Community Involvement

Volunteer at Chadar Street Store.

Orphanages center visit (Community services Learning Semester Project)

Community services project with WWF-Pak.



## PROFESSIONAL & TECHNICAL SKILLS

EE MATLAB, LABView, Packet Tracer, Logix Pro

Others C, C++, AutoCAD, Adobe Illustrator

Soft Skills Punctuality, Team Work, Positivity, Time Management

Poised under Pressure, Written Communication.



## ACADEMIC PROJECTS

- >Energy Management in Plug-in Electric Vehicles: (Final Year Project)
- >12-Bit Arithmetic Adder and Subtractor Unit (Hardware) (DLD Semester Project)
- >Chatbox for Multiple Clients (Computer and Communication Networks Semester Project)



# MAHMOOD AHMAD KHAN

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**Career Objectives**  
Hardworking, detail-oriented, and versatile individual striving to achieve excellence in all spheres of life. Always prepared to take on new challenges, with experience in general purpose programming, and a solid background in electronics, telecommunications, and robotics.

→ EDUCATION

2022	BE-EE	National University of Sciences and Technology (NUST)
2018	A-Level	Roots Millennium Schools, Flagship Campus, Islamabad
2016	O-Level	Bahria College, Islamabad

→ WORK EXPERIENCE

07-2021 08-2021 Pakistan Telecommunication Company Limited (PTCL)  
Attended sessions on "The Art of Data Science", seminars devoted on data analysis techniques, data reporting, and data validation and dashboards.

06/2021 07/2021 Pak Elektron Limited (PEL)  
Worked on a project with a team of 6 members, in which we did a comparison study between Air Insulated and Gas Insulated Substations (AIS & GIS). The project was successfully carried out, with all learning objectives completed.

→ PROFESSIONAL & TECHNICAL SKILLS

Technical	Python, C, C++
Technical	Wireshark, eNSP, Packet Tracer, LabVIEW, AutoCAD
Technical	MATLAB
Technical	MS-Word, MS-Powerpoint, MS-Excel, Creative Writing

→ ACADEMIC PROJECTS

- EMG Driven Arm-Mounted Exoskeleton, a final year project that designs and implements a motion-assist arm-mounted exoskeleton through motors controlled by the user's muscle impulses.
- Password Protected Chatbox created a webserver that manages a database containing the usernames and passwords of registered clients. Once a client logs in, they can send a message to one or more of the other registered clients.

Achievements

- Merit Based Scholarship in Spring 2019.
- Merit Based Scholarship throughout A-Levels.
- Top 14 Nationwide in CIMA Spellmaster 2014.

Community Involvement

- Collected more than 300 clothes for a 10 hour community service project.
- Taught kids at Master Ayub School for a 20 hour community service project.
- Executive Writer for Chadar's (an NGO) online blog Dastaan, in which we write about the struggles of our peers in their daily life and how they overcame them. The aim is to give motivation to people to not give up, no matter the difficulties they face.

Extra Curricular Activities

- Was the Director Logistics for IEEE, SEECS Chapter and managed a team of six individuals through every event for a year.

# MAKHDOOM TAYYAB ALTAF

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LinkedIn profile [Makhdoom Tayyab Altaf](#)

**Career Objectives**  
An enthusiastic Electrical Engineer from NUST, having a strong knowledge of Computer Science, striving to secure employment with a reputable company to utilize my skills and training to the maximum.

→ EDUCATION

2016	Matric	Conniesseur Grammer School
2018	FSc	Punjab Group of Colleges
2022	Engineering	National University of Science and Technology

→ WORK EXPERIENCE

July 2021 Aug 2021 WAPDA (FESCO)  
Managing loads on commercial transformers  
Managing public complaints  
Testing and maintenance of transformers in Transformer Reclamation Workshop

June 2020 Aug 2020 Hactric Solutions  
Leading a team of 6 members  
Responsible for taking customer orders and conveying it to the relevant teams

→ PROFESSIONAL & TECHNICAL SKILLS

Power	ETAP, PSSE (Siemens), PLC Programming
Programming	C++, Python, Assembly
Management	Communication, Presentation, Teamwork, Flexibility
Personal	Content Writing, Improvisation, Critical Thinking

→ ACADEMIC PROJECTS

- Smart Under Frequency Load Shedding design for Industrial Plants (FYP)
- Airborne Wind Turbine
- Home Monitoring and Automation System
- Café Management System
- Image Classification

Achievements

Best Hafiz Competition winner

Community Involvement

Red Crescent (Lahore) (Internship)

Community Service Learning Project 1 (Ifar Drive)

Community Service Learning Project 2 (Career Awareness in students)

Extra Curricular Activities

HONET ICT' 19 Team Admin Events

NUST OLYMPIAD Team Admin Events

IEEE SEECS Director Admin Events



Maryam Mahmood

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Career Objectives  
To gain experience and explore opportunities in Embedded AI Field.

→ EDUCATION

2015 Matriculation Al-Huda , Wah Cantt  
2018 Internediate The Scholars Science College, Wah Cantt  
2022 Undergrad SEECS, NUST

→ WORK EXPERIENCE

28-6-21 21-8-21 Smart Agritech Lab, NICHE  
Hardware Accelerator For Neural Networks on Xilinx FPGA

→ PROFESSIONAL & TECHNICAL SKILLS

Programming C/C++, Python, Assembly, Verilog  
Hardware Design ModelSim, Xilinx ISE, FPGAs  
Simulation Software Proteus, Multisim, Logisim, LabVIEW, MATLAB, Simulink  
Machine Learning PyTorch, OpenCV

→ ACADEMIC PROJECTS

- 1. Wheelchair Prototype for differently abled. (Designed using FreeRTOS)
- 2. Smart Traffic Controller. (A Traffic controller design to overcome Road Congestion Issues and to facilitate Emergency Vehicles, using A Deep Learning Model Deployed on an Embedded Device)
- 3. 4-Bit Microcontroller. (Designed for Generating Fibonacci Numbers)

Achievements

None

Community Involvement

None

Extra Curricular Activities

None

Mian Ahmed

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Career Objectives  
Dedicated electrical engineering student. Proficient in a wide variety of engineering software. Excellent communication and time management skills. Reliable and strives to go above and beyond to deliver a project that meets and exceeds expectations.

→ EDUCATION

'16 Matric Dar-e-Arqam School, Faisalabad  
'18 FSC Punjab College, Faisalabad  
'22 BEE SEECS, NUST

→ WORK EXPERIENCE

15/07/20 16/08/20 Zalco Engineering, Faisalabad  
Got to know about detailed mechanism and manufacturing of textile processing machines and how the use of electrical machines is essential in textile industry.  
02/8/21 09/09/21 SITARA Engineering, Faisalabad  
Learned about Industrial and textile processing machinery, manufacturing and operations

→ PROFESSIONAL & TECHNICAL SKILLS

Power World simulation Technical  
PSCad Technical  
Proteus, Pspice Technical  
C,C++,Machine learning Technical

→ ACADEMIC PROJECTS

- Low Cost smart hybrid inverter
- Ultimate tic tac toe (C++)
- Vigenere Cipher(C)
- Whack a mole by digital logic design (Hardware)
- 4-Bit Micro-Controller (Hardware)
- Ac panels fan using arduino and Labview(Hardware)

Achievements

Community Involvement

Volanteer at chaddar and blood donation drives.

Extra Curricular Activities



Abdul Moeed

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Career Objectives  
Electrical engineer with a knack for hardware design and a dedication to perfection. looking to make a difference

→ EDUCATION

2022 BEE SEECS, NUST

→ WORK EXPERIENCE

Oct, 2021 Jun, 2022 INTEGRATED CIRCUIT DESIGN LAB  
Contributed and Collaborated with the team to tape out our indigenous RISC V processor on TSMC's 65 nm technology

Jan, 2022 Jun, 2022 NUST  
Teaching assistant for "EE-421 Digital System Design"

→ PROFESSIONAL & TECHNICAL SKILLS

Hardware	Verilog, Modelsim, Computer architecture and FPGAs
Software	C++, Microcontrollers , Python, Animation, MATLAB
Math	Signal processing and Abstract ideas
Soft skills	Power-point , Speaker, Charisma

→ ACADEMIC PROJECTS

High Speed AES Encryption Module  
IOT nodes and sensor libraries  
Pipelined Risc-V Implementation  
Synchronous Data Transmission Using Logic Gates  
RSA's Encryption Implementation in Software

Achievements

Undergraduate Academic Excellence Scholarship – SEECS for 7 out of 7 semesters

Merit Scholarship – NUST  
Came in the top 50 merit positions in bachelor admission pool.

Community Involvement

Food Drive Volunteer  
Volunteer and manage a local food drive in my hometown.

Nust Community Service Club  
Organized multiple events to create a positive impact in the society

Extra Curricular Activities

Orientation Leader:  
Led a team of 8 Volunteers to guide a group of 200 freshman in total

Vice chair program at IEEE SEECS student branch:  
Led a portfolio of 4 teams, namely, "Marketing, Logistics, Décor, Admin Events", making up to 40 students.



Mohaimen Muntaha Fatimah

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Career Objectives  
Passionate and hard-working undergraduate engineering student, seeking to expand horizons and gain practical experience. Equipped with the required technical and research skills to thrive in a diverse competitive environment.

→ EDUCATION

2022 BEE National University of Sciences and Technology  
2018 Alevels Beaconhouse School System

→ WORK EXPERIENCE

07/2021 08/2021 OREL Vision  
Design, build and test embedded system projects including solar trackers and remote controlled cars.

06/2019 08/2019 TUKL-NUST Research & Development Center  
Successfully complete a machine learning project on Image Super-Resolution using Deep Learning.

→ PROFESSIONAL & TECHNICAL SKILLS

Embedded System	FreeRTOS, Verilog HDL, IAR Embedded Studio, Proteus
Antenna Design	CST
Programming	C/C++, Python
Soft Skills	Leadership, Flexibility, Written & Verbal Communication

→ ACADEMIC PROJECTS

Laser-based Nanometric Motion Measurement  
Gesture Controlled Car  
Processor Design  
Harmful Gas Monitor

Achievements

FICS Finalists (2021)  
Merit Scholarship - NUST (2019 - 2021)  
IELTS Band: 8.0 (2021)

Community Involvement

President  
NUST ACM-W Student Chapter  
Executive Member  
Chadar (Project Hope)

Extra Curricular Activities

Photography  
Volleyball  
Basketball  
Archery



# Mohammad Zain Farooq Gill

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## Career Objectives

I wish to prove myself every step of the way and not only achieve but earn excellence. Highly motivated Electrical Engineer with majors in Embedded Systems, Computer Architecture and Computer Vision. Keen and focused team player who is resilient and communicates appropriately.



## EDUCATION

- 2015 Matriculation City Star School, Faisalabad.
- 2017 FSc Punjab College of Science for Boys, Faisalabad.
- 2022 BEE National University of Science and Technology (NUST)



## WORK EXPERIENCE

July, 19 Aug., 19 Sitara Chemical Industry Limited, Faisalabad.

I was an intern in the electrical department of the organization and visited different systems and sites of the organization.

July, 21 Sept., 21 Integrated Circuit (IC) Design Lab, NUST.

I was a research intern working with Deep Learning and its integration into proprietary hardware.



## PROFESSIONAL & TECHNICAL SKILLS

- Electrical Digital and Logic Design, simulations and Analysis.
- Programming Functional and Object Oriented C/C++, Python and Java.
- Embedded Verilog,RTOS,Embedded C++,FPGA,Arduino,STM32,ESP.
- Softwares Proteus 8.0, Atmel Studio 7.0, PSPICE, MatLab.



## ACADEMIC PROJECTS

Head to Head, 2 player Fighting Game (C++)

VGA Controller and Lines Drawing Algorithm using Verilog HDL (Hardware)

Processor using Verilog HDL that runs instructions (Hardware)

Embedded Design of a Real-Time Smart Clock (Hardware)

FYP: Real Time Video Surveillance Anomaly Detection System on the Edge.

## Achievements

Lab2Market, SPCAI - Finalist.

InnovateFPGA - Semi-Finalists.

## Community Involvement

I was heading the management of "Project Insaniyat" assigned to our whole class as a community project from NUST.

I, along with my group fellows, visited orphanages and spent time with them and collected donations for them.

I, along with my group fellows, also collected donations to aid in the construction of a Mosque in Mansehra.

## Extra Curricular Activities

BISE Faisalabad District and Division Level English Debate Winner for four years.

Batsman for Green House Team of SEECs, NUST.

Two time Semi-Finalist of SEECs Cricket League.



# Muhammad Ahmed Mansoor

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LinkedIn profile nil

## Career Objectives

My aim is to keep growing my skill set as an embedded and control systems engineer and electronic systems designer by tackling real world projects with an organization which can provide me ample opportunity to do so, and to whom I may prove myself to be a dependable individual.



## EDUCATION

- 2022 Bachelor of Engineering National University of Science and Technology (NUST)
- 2018 HSSC Fauji Foundation College for Boys, New Lalazar
- 2016 SSC Army Public School, Multan Cantt



## WORK EXPERIENCE

07/2021 09/2021 National Engineering and Scientific Commission (NESCO)

Worked with Microchip's dsPIC microcontrollers and explored their use in motor control applications. Studied different motor control PWM and hardware schemes. Culminated with the development of a sensorless brushless DC motor

09/2021 06/2022 Integrated Circuits Design Lab-NUST

Learnt to work with Atmel AVR Microcontrollers (ATMEGA16, ATMEGA328), STM32 Microcontrollers (STM32F1 and STM32F4), a variety of sensors (accelerometers, gyroscopes e.t.c), wireless transceivers, and gained good grip



## PROFESSIONAL & TECHNICAL SKILLS

- Prototyping Soldering, PCB designing
- Programming Arduino, STM32, C, C++, OOP, FPGA, ATMEGA
- Software MATLAB, Proteus, Kicad, LabView, Psipce, Visual Studio
- Designing AUTOCAD, GUI development, QT



## ACADEMIC PROJECTS

- 1) AutoMotor- A Multifeatured Multichannel DC Motor Controller (hardware designed on DSPIC microcontroller)
- 2) Accelerometer based measurement of dihedral angles (hardware designed on STM 32, arduino)
- 3) Modern Aqua-Saving Ablution Helper (MASAH)
- 4) 4-bit Microprocessor





## Muhammad Ali Sajid

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### Career Objectives

A student aiming to learn and apply modern and efficient techniques to maximize the performance of any industry.

## → EDUCATION

2022	BEE	National University of Science and Technology (NUST)
2018	F.Sc	Fazaia Inter College Jinnah Camp, Rawalpindi
2016	Matric	ASF Public School Islamabad

## → WORK EXPERIENCE

July 2021	Aug 2021	Water and Power Development Authority (WAPDA)
To supervise and regulate the proceedings of 3.6MW Thor Hydel Power Plant (Chilas).		
Jan 2022	Feb 2022	Water and Power Development Authority (WAPDA)
To analyze and understand the working of a 4888MW Tarbela Hydel Power Station along with its transmission to National Grid.		

## → PROFESSIONAL & TECHNICAL SKILLS

Power Sector	Designing, Maintenance and Protection of Power Stations
Embedded Sector	Microprocessor and FPGA grip, VHDL, HDL, Verilog
Softwares	MATLAB, Simulink, AutoCAD, Pspice, Proteus, Quartus Prime, Visual Studio
Other soft skills	Effective Communication, Leadership, Time Management, Team Management

## → ACADEMIC PROJECTS

Final Year Project:  
Mechanical Modeling & Design Characterization of Three Phase Induction Motor  
1. Working on efficiency of an induction motor by an improved design  
2. Designing of 3 Phase Squirrel Cage Induction Motor on Ansys Maxwell

### Achievements

- 1st Position in Fazaia Inter Result (Pre Engineering) 2018.
- 2nd Position at National Level Literary Fest.
- Distinctive Youth Volunteer Award by PRCS and visit to President House.
- Featured on NUST Social Media as "Star of NUST".

### Community Involvement

2 star Youth Volunteer at PRCS Islamabad and completed two projects there:  
1. Beacons of Hope (Spending time with orphans and donating them ration and electronics)  
2. Serving the Deprived (Improvement of small town school by donating batteries and fans and some eatables)  
3. Donating Blood regularly

### Extra Curricular Activities

1. President at Youth Entrepreneurship Society (YES) and NUST Entrepreneurs Club.
2. Director Media and Social Media at SEECS Government Association (SGA)
3. Youtube Channel with 10k+ active subscription.
4. SEECS A cricket team player.
5. Novel Reading.
6. Urdu Prose writing.
7. E-commerce stores on Daraz.pk
8. Batch President of SEECS Class of 2022.



## Muhammad Asad Imran Rafique

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### Career Objectives

A hard-working Electrical Engineer, aspiring to use creativity in professional life. Excels at complex problem solving and troubleshooting.

## → EDUCATION

2022	BEE	NUST SEECS
2018	A-Levels	Beaconhouse Margallah Islamabad
2016	O-Levels	Bahria College islamabad

## → WORK EXPERIENCE

06/2021	08/2021	RISC Lab, SEECS NUST
Conducted research on Industry standard Data Acquisition Systems Learnt about the global applications of Data Acquisition Systems Developed a prototype Data Acquisition System for loss-less storage Education		
07/2021	12/2021	NESCOM
Worked on a multi-channel Data Acquisition System, Developed GUI for Data Acquisition System, Utilised industry grade software for task completion		

## → PROFESSIONAL & TECHNICAL SKILLS

Professional	Project Management
Professional	Troubleshooting
Technical	Embedded Software
Technical	C/C++ programming

## → ACADEMIC PROJECTS

Embedded Multi-Channel Data Acquisition System,  
Hand Gesture Based Embedded TV Remote,  
Complex Domain Matrix Solver Program,  
4-Floor Elevator on PLC

### Achievements

1st in Pakistan in International Kangaroo Mathematics Contest (IKMC) 2014

### Community Involvement

Executive NUST Community Services Club (2019-2020)  
Helped organize blood donation drive (2019).

### Extra Curricular Activities

German Language, French Language, Cricket, Violin





MUHAMMAD ASAD KHALIL RAO  
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**Career Objectives**  
I am looking for an opportunity in the domains of industrial Automation. My technical strengths include Circuit Designing, PCB Designing, Arduino Programming and Microcontrollers and I want to get a role where I get the opportunity of hands-on work on these technologies and tools.

→ EDUCATION

School of Electrical  
2022 BE Electrical Engineering Engineering & Computer Science

→ WORK EXPERIENCE

Worked in Electro mechanical System Lab from June 4,2021 to August 5,2021 in designing Switch Mode Power supply

→ PROFESSIONAL & TECHNICAL SKILLS

Matlab,Python  
Simulink,Octave  
Pspice,Wireshark

Team workshibit of body text  
Team management skills  
Leadership and communication

→ ACADEMIC PROJECTS

Electronic Piano  
Designing SEPIC Converter  
Switch Mode Power Supply

Achievements

Community Involvement  
Visit to Orphanage

Extra Curricular Activities  
Horse Riding  
Swimming  
Table Tennis



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**Career Objectives**  
Seeking role as an Electrical Engineer to use experiences with ensuring all electrical equipment functions efficiently and leading project teams for the benefit of the company. Using communication and team building skills to utilize my expertise, implementing my innovative ideas and creative mindset in the domain of power electronics and control systems.

→ EDUCATION

2022 BEE Eletrica Institute: NUST  
2018 HSSC Institute: Fazaia Inter College Minhas  
2017 SSC Institute: Fazaia Degree College MRF, Kamra

→ WORK EXPERIENCE

05-2021 06-2021 Organization : Aircraft Rebuild Factory  
Operated, monitored and diagnosed HSTD (High Speed Target Drone) electrical, pneumatic, hydraulic and fuel systems to ensure optimal system performance.  
08-2021 09-2021 Organization : PTCL  
1-Worked on Zero touch technology, its advantages on remote fault detection in telecom devices.  
2- Used said techniques as testing mechanism and implemented them on PTCL devices.

→ PROFESSIONAL & TECHNICAL SKILLS

Field Software  
Field Ms Office  
Field: Software  
Field: Hardware

Technical and Soft Skills: PLC and MATLAB programming  
Technical and Soft Skills:MS Powerpoint, Excel and Word  
Technical and Soft Skills: C and C++ Programming  
Technical and Soft Skills:Expertise in Arduino and Delfino

→ ACADEMIC PROJECTS

1- Smart DC MICROGRID (Final Year Project)  
2- Automatic Irrigation System for Farmers using Digital Logic Design (DLD)  
3- Single Phase DC to AC Inverter  
4- Building 4-bit Microprocessor using parallel 8-bit I/O EEPROM  
5- 4-way Traffic light control system in Proteus

Achievements

Community Involvement

Extra Curricular Activities



# MUHAMMAD ISMAIL

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## Career Objectives

"Electrical Engineer from NUST, looking to join and work on projects with well-reputed company having some experience of communication systems, machine learning, Power, Electronics and Embedded systems. And looking back at the efforts of my mother after my father passed away, and all the institution that gave me a chance to study and grow now I just want to make them proud."



## EDUCATION

2022 Bachelors in Electrical Engineering from NUST  
2018 FSc Pre-Engineering from KIPS College  
2016 Matric with science subject from The City Grammar School



## WORK EXPERIENCE

08/2021 09/2021 Research Assistant at Niche, Microwave design lab  
This research work is based on working in different projects that includes Acconeer and Texas Instrumentation Radars, feature classification using different Machine Learning techniques/algorithm and their implementation using Embedded systems/Microprocessors.  
07/2021 08/2021 Internee at PTCL Headquarter, Islamabad  
This internship focuses on wireline optimization and understanding of different tools that help in this regard.



## PROFESSIONAL & TECHNICAL SKILLS

Programming C, C++, Python, Verilog (Hardware descriptive language)  
Software MATLAB, PROTEUS, Simulink, AutoCad  
Electrical Circuit understanding /Simulation, PLCs  
Embedded / AI Micro-controllers,deep learning,Arm architecture,FreeRTOS



## ACADEMIC PROJECTS

>>> Posture and fall detection using mm-wave Radar (FYP): Embedded AI  
>>>Automated and secure car Parking system: Using FreeRTOS  
>>>Develop Image recognition project on Cifar-10 dataset using CNN  
>>> Developed an affective management system of a cafeteria  
>>> working with FPGAs and PLCs



# Muhammad Khalil

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## Career Objectives

An engineer, eager to do innovations in power and energy systems.



## EDUCATION

2022 BEEE National University of Sciences and Technology  
2018 F.Sc. Hamza Army Public College, Rawalpindi  
2016 Matric Hamza Army Public School, Rawalpindi



## WORK EXPERIENCE

Jan 2022 Feb 2022 Tarbela Power Station - WAPDA  
1. Analyzing hydel power generation system.  
2. Understanding the protection system of transformers and generators.  
Aug 2021 Sep 2021 Islamabad Electric Supply Company  
Understanding and analyzing the working principles of interconnected bus systems, feeder routes of power flow and system protection.



## PROFESSIONAL & TECHNICAL SKILLS

Power Protection, Generation, Transmission and Electronics  
Microwave Designing, manufacturing, Testing  
Software MATLAB, Simulink, Proteus, PSpice, ADS  
Soft Skills Problem solving, Commuication, Adaptability, Teamwork



## ACADEMIC PROJECTS

1. Final year Project:  
Bidirectional Vehicle to Grid energy transfer system.  
2. Regulated buck converter with feed forward and backward compensator.  
3. 1x4 Wilkinson power divider in ADS.  
4. Lab-View based Human Body Monitoring System.



# Muhammad Soban

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## Career Objectives

To work in an organization which provides me with ample opportunities to enhance my skills and knowledge along with contributing to the growth of the organization and to make sure that I assist the growth promotion of the Company with the best abilities that I possess.



## EDUCATION

2022 BEE SEECS-NUST  
2018 FSC Punjab Group of Colleges Fsd  
2016 Matriculation Lasalle High School Fsd



## WORK EXPERIENCE

15/6/2020 15/8/2020 Zalco Pvt Ltd.  
Worked on the electrical components of Heavy machinery used in the dyeing units of Textile Machinery.

8/6/2021 1/8/2021 Farooq Electronics  
Worked on the chipsets and boards of different electrical components used in household electronics.



## PROFESSIONAL & TECHNICAL SKILLS

Power Systems Electrical Power Systems  
Power Systems Domestic Solar Systems  
BEE Matlab  
Computer Science C, C++, Python, MQL 4



## ACADEMIC PROJECTS

Game Design- Wack a Mole (Digital Logic Design)  
Automated Trading Algorithms (Machine Learning)  
Solar Power Inverter- Final Year Project

### Achievements

Certificate of Appreciation from Nust Archery Club for leading Team Marketing.

Certificate From Chaddar for participating in Clothing Drive for the Underprivileged people.

### Community Involvement

Clothing Drive -Project Of Chaddar Sewing Machine Distribution  
-Women Empowerment(Community Service Project)

### Extra Curricular Activities

Team, Member Marketing- NLF'20  
Merchandise Management- NLF'20  
Director Marketing- NUST Archery Club  
Team Member Marketing\_  
Adventure Club



# MUHAMMAD WAHAJ NADEEM

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## Career Objectives

Looking for opportunities to polish my leadership skills and gaining industry and corporate experience by acquiring challenging positions in reputable organizations.



## EDUCATION

2022 BEE National University of Sciences and Technology  
2018 F.Sc. Army Public School and College Ordnance Road  
2016 Matric Army Public School and College Ordnance Road



## WORK EXPERIENCE

Jun 2021 Sep 2021 Systems Optimization Lab (SOL), SEECS-NUST  
Worked as a Research Intern on Battery Management System for Lithium-Ion Battery pack in summer break.

Aug 2021 Sep 2021 National Centre for Non-Destructive Testing  
Learned latest tools and methods used for Non-destructive inspection in industries and plants



## PROFESSIONAL & TECHNICAL SKILLS

Software Skills Matlab, Multisim, Proteus, Altium Designer, Eagle CAD  
Programming C, C++, Python  
Soft Skills Adaptability, Communication, Willingness to take initiative  
Technical Skills Circuit Designing, PCB Layout Designing, Adobe Suite



## ACADEMIC PROJECTS

1-Battery Management System for Lithium Ion Battery Pack (Final Year Project)  
2-Smart Irrigation System (A cheap and an efficient solution for plant Irrigation)  
3-LCD Interfacing with ATMEGA16A(Using Assembly language in Atmel Studio)  
4-Pharmacy Management System (Using C++)  
5-Campus Management System (Using C)

### Achievements

1- Won Merit Scholarships in SSC and HSSC Exams  
2- 22nd position in Federal Board SSC Examination  
3- Student of the year award in 10th class as the top performing student in the curricular and extra-curricular activities  
4- Organizer of Open House 2019

### Community Involvement

1- Participated, Organized, and Mentored a community service event by the name Project Insaniyat for 3 consecutive years.  
2- Community Service Project - Ramadan Ration Drive 2022  
3- Community Service Project - Supplying hospitals with wheelchairs

### Extra Curricular Activities

1- Vice President of NUST Student Forum – SEECS Chapter  
2- Organizer of SEECS Orientation 2020 and 2021  
3- Participant of SEECS Got Talent in 2019 and 2021  
4- Table Tennis and Football Player  
5- Artist (Sketching and Origami Artist)  
6- Graphic Designer for Tuamify  
7- Musician (Singer and Guitarist)



# MUHAMMAD HASSAAN

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## Career Objectives

An undergraduate navigating through the world of AI and Web. He is most intrigued by the information carried by the multitudes of available data.



## EDUCATION

20202 Bachelors in National University of Sciences and Technology



## WORK EXPERIENCE

November Present Upwork - Freelancer

Working in Computer Vision and Natural Language Processing. Developed several models on Object detection, tracking, recognition, forecasting and Language Understanding for US Based clients

March 202 Present Neusis

US based agency. Responsible to build a trading card detection and analysis program.



## PROFESSIONAL & TECHNICAL SKILLS

Computer Vision Object detection, Object tracking, Object recognition, Classification

Natural Language Processing RNN, Attention Models, Transformers, BERT, GPT-3

Web ReactJS, Vanilla JS

Hardware C++, STM32



## ACADEMIC PROJECTS

- RL For resource allocation in THz HetNets
- Performance Analysis of THz Communication Systems (Published author)
- C++ Class diagram maker (<https://github.com/hassaanakram/class-diagram-maker>)

### Achievements

Finalist OpenCV Spatial AI Competition

### Community Involvement

TABA Youth Chapter NUST: Book Drive, Cloth Drive

ACM ASWAN: Orphanage Visits, Workshops on Computer Sciences

### Extra Curricular Activities

Senior VP ACM NUST Chapter (Women Wing)

# MUHAMMAD USMAN

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## Career Objectives

To find a challenging, rewarding and dynamic niche in the technical corporate sector, which fully engages my technical and professional expertise.



## EDUCATION

2022 BEE National University of Sciences and Technology, NUST

2018 HSSC HITEC School & College for Boys, Taxila Cantt

2016 SSC HITEC School & College for Boys, Taxila Cantt



## WORK EXPERIENCE

Dec 2021 Mar 2022 NICA LAB, KAIST, Daejeon, Republic of Korea

1. Hands-on research on biomedical image processing, with an emphasis on processing optical fluorescence microscopy images of biological tissues
2. Training convolutional neural networks for the segmentation of neuronal membranes

Aug 2021 Nov 2021 Strada Imaging Ltd., Berkshire, United Kingdom

1. Generating 3D point clouds of potholes using a Structure from Motion (SfM) based 3D reconstruction algorithm
2. Obtaining the intrinsic and extrinsic parameters of machine vision cameras using OpenCV



## PROFESSIONAL & TECHNICAL SKILLS

Machine Learning TensorFlow, Keras, PyTorch, OpenCV, Pandas

IoT Development Arduino microcontrollers, OpenCV AI-kit, STM32 boards

Circuit Design Tools MultiSim, Proteus, Orcad Capture

Programming Python, MATLAB, C/C++



## ACADEMIC PROJECTS

1. Performance Analysis of RIS-enhanced NOMA-assisted BackCom system [Bachelors Final Year Project]
2. Biometric Classification in the Virtual World using DL for the classification of users through their gameplay style
3. e-Care: An Internet-of-Things (IoT) based real-time patient monitoring system using NodeMCU running on FreeRTOS



FULL NAME: Nauman Yasin

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### Career Objectives

An ardent Electrical Engineer, seeking to learn and use proven designing skills for autonomous and efficient vehicles/systems for maximizing company growth. Enhancing the organizational culture; creating a learning and immersive environment for the team.

## → EDUCATION

Year	Degree	Institute
2022	Electrical Engineering	NUST

## → WORK EXPERIENCE

From: July 2021 To: August 2021 Organization: NCRA

Ensuring safety as per the ISO standard for Recliner beds, Designing Solar Panel cleaner on Solid work, upgrading of Un-manned grounded Vehicle circuitry and sensor interfacing

From: 2019 To: 2021 Organization: Aziee

Instructor-Saudi University Entrance Exam and Media content creator

## → PROFESSIONAL & TECHNICAL SKILLS

Field: Coding	Technical and Soft Skills: Leadership
Field: PCB	Technical and Soft Skills: Multi-Tasking
Field: Sensor	Technical and Soft Skills: Initiative taker
Field: ISO	Technical and Soft Skills: Interpersonal Skills

## → ACADEMIC PROJECTS

- \* Robotic manipulator design in Gazebo using ROS
- \* Modulated signal transmission, detection and demodulation
- \* Interfacing Arduino, RAM and Pic 18 with different modules
- \* 5V DC power supply from house hold supply of 220V AC

### Achievements

Supervisor Summer Mentorship Program 2019

### Community Involvement

Led Alumni Fund Raiser

Bharosa Karean Campaign Providing Emergency Cards

Child Abuse awareness drives

Team Management for Ring of Pakistan and First AID responder

### Extra Curricular Activities

Stall Head Winter Fiesta

Chess Qualifier

Thandiani Trip Event management

Welcome MOC NAC



Muhammad Zeeshan

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### Career Objectives

Dead-line driven person focused on overseeing assignments from concept through final delivery. Apt at learning and absorbing new skills in a short period of time. Able to keep all team-members on task. Resourceful and hardworking with always challenging myself and on the look out to learn new things to increase my knowledge.

## → EDUCATION

2022 BE Electrica National University of Sciences and Technology Islamabad

## → WORK EXPERIENCE

Jul. 2019 Aug.2019 Packages Limited, Lahore

Collaborated with fellow internees to analyze the 0.5 MW Solar System at Packages Limited.

Jul. 2021 Sep.2022 Fatima Fertilizers, Sadiqabad

Designed and studied the Load Flow Analysis of Ammonia Plant, Learnt about the Mechanical Attributes of AC Motors

## → PROFESSIONAL & TECHNICAL SKILLS

Office 365	C++
AutoCad	PSPice
MATLAB	PowerBI
Python	Altium

## → ACADEMIC PROJECTS

Building a 1KW Battery Pack Using Active Battery Management System (Final Year Project)  
MORSE Code Machine  
Solar PV System with MPPT using Boost Converter  
Air Quality Index Prediction

### Achievements

Recipient of Yearly PEEF Scholarship since 2016 – Government of Pakistan. National Winner of Battle of Minds Global Competition – British American Tobacco.

### Community Involvement

NUST BioReach Society: Orchestrated and Supervised many events conducted on and off campus like Eye Camp, Dental Camp, Thalassemia Camp, Visit to Orphanages, Water Conservation Drive Conducted meetings among council members and maintained council database

### Extra Curricular Activities

NUST Olympiad: Participated in Badminton Competition held at NUST Olympiad in 2019 and reached the semi-final round.





FULL NAME SAAD SALMAN

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Career Objectives

I aspire to achieve a technical and productive experience and be an employee of a well-developed organization that gives an opportunity to capitalize my technical and analytical skills as an Electrical Engineer and to learn under a collaborative team of talented individuals and help to produce work that serves to fulfill the organization’s goals efficiently.

→ EDUCATION

2022	BE ELECTRICAL	NATIONAL UNIVERSITY OF SCIENCE & TECHNOLOGY.
2018	FSC PRE-ENGG	PUNJAB GROUP OF COLLEGES (PGC).
2016	MATRIC	ASAAS NATIONAL SCHOOL FOR BOYS.

→ WORK EXPERIENCE

JUNE 2019 – AUGUST 2019	BOSS HOME APPLIANCES Pvt, Ltd.
Worked as a technical internee in the production line department.	
<ul style="list-style-type: none"><li>• Understood the working of Injection Pump Machines</li><li>• Observed the automation process of Automatic Washing Machines</li><li>• Observed the switching and circuitry in the various Home Appliances.</li></ul>	
SEPT 2020 – OCTOBER 2020	PEPSI (GRW) Pvt, Ltd.
Appointed as a technical trainee to observe and realize the prospects of manufacturing process of the product in the form of ‘SSRB’ and mainly to analyze the shortcomings of different working units of the industry as well as the basic technician techniques of the other fields including Quality Control and Assurance, Production, Water Treatment, CO <sub>2</sub> Manufacturing and HSE & Food Safety.	

→ PROFESSIONAL & TECHNICAL SKILLS

MATLAB	Programmer in Sp and Signals Toolbox
PROTEUS, PSPICE	Knowhow of Logic Circuit Designing
C/C++	Programmer in basic logic building and solving problems
MOS OFFICE	Certified in MS Office Tools

→ ACADEMIC PROJECTS

**OBJECT DETECTION AND OBSTACLE AVOIDANCE BASED ON COMPUTER VISION (FYP)**  
Aimed to enable visually disabled community to be able to have the ease of identifying objects and avoiding obstacles.

**ARTISTIC PATTERN FORMATION USING MULTI-ROBOT SYSTEM**  
To establish the formation using smooth, collision-free robot motions.

Achievements

Honors, Awards or any other Worth Mentioning Achievements

Community Involvement

Write Community Involvements Here

Extra Curricular Activities

Write Extra Curricular Activities Here



Saad Khalil

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Career Objectives

Passionate, field-oriented Electrical Engineer seeking a technical or managerial career in the provision of Process Control and Controls Systems to utilize and enhance my knowledge.

→ EDUCATION

2022	BsEE	National University of Science and Technology, Islamabad
2018	SSC	Jubail International School, Saudi Arabia
2016	HSSC	Jubail International School, Saudi Arabia

→ WORK EXPERIENCE

19/03/20	01/03/21	Project Manager
Worked as a project manager under Al Khidmat Foundation, managing the distribution of rations at the time of covid-19 in the district of Faisalabad, Pakistan. I worked as a project manager there.		
03/04/22	03/05/22	Resource Manager
Raising awareness and the collection of funds for the distribution of Eid gifts for the needed orphan kids in rural areas of district Faisalabad.		

→ PROFESSIONAL & TECHNICAL SKILLS

Personal Skills	Self-management, Deadline oriented, Versatile personality
Technical Skills	Hardware Implementation, Circuit designing
Hardware Skills	AutoCAD, Arduino, Proteus, MATLAB
Programming Skills	C, C++, Verilog, Simulink

→ ACADEMIC PROJECTS

1. Automatic parking system with empty slot detection (Final Year Project),
2. Attendance Monitoring Device,
3. Demand Response of Thermal Appliances,
4. 4-bit Number Crunching Machine.

Achievements

- > Won Urdu & English writing competitions.
- > Achieved highest grades in Mathematics (Class 11)

Community Involvement

- > Volunteered for community service.
- > Conducted iftar and dinner drives with my team.
- > Attended Community Service Learning workshops

Extra Curricular Activities

- > Soccer,
- > Video gaming,
- > Travelling and capturing natural artistry
- > Reading (Investigation & adventure novels)



# Mohammad Nouman Bin Faheem

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**Career Objectives**  
An Engineer specializing in the field of embedded systems and power electronics with the experience of working on a diverse set of projects seeking to work in a challenging and fast-paced environment where I can contribute to the growth of the company while constantly developing my own skills and abilities

## → EDUCATION

2022 BE Electrical SEECS, NUST (GPA 3.21)  
2018 FSc Fauji Foundation College (87.1%)  
2016 Matric Saint Mary's Academy (93.14%)

## → WORK EXPERIENCE

Jun 2021 Aug 2021 ESDAC Lab SEECS  
Wored on the implementation of neural networks on embedded hardware (Jetson Nano in this case) for real time inferencing (classification) of medical images.  
  
April 2022 Present Photomath Inc.  
Worked as a part time 'Math Expert' in photomath incorporation a company based in USA.

## → PROFESSIONAL & TECHNICAL SKILLS

Embedded ARM Cortex Microcontrollers(Incl. FreeRTOS)  
Control/Electronics Proteus,Pscpice,Orcad,Matlab,Labview,AutoCAD,Ladder  
Programming C,C++,Python,HDL,FPGA,Assembly,Linux,Tensorflow  
Soft Skills Communication,Leadership,Creativity/Innovation,Animation

## → ACADEMIC PROJECTS

1- Anti-Collision Remote Controlled Car  
2- Portable Embedded Chest X-Ray Classification for TB detection  
3- Buck Converter  
4- Implementation of a simple CPU on FPGA  
5- Chat Box using Socket Programming

**Achievements**  
1- Gained financial independence before completing Matriculation through freelancing.  
2- Ran a successful entrepreneurial venture inside the university campus.  
3- Been a Prefect throughout my academic career.

**Community Involvement**  
1- Conducted Iftaar drives in collaboration with the Youth Club at Islamabad  
2- Installed Water Coolers at different mosques around the city  
3- Volunteer work with various community service organizations

**Extra Curricular Activities**  
1- Hosted a batch level event that had different plays and speeches.  
2- Directed, Produced and Acted the main lead in a batch level Drama enlightening a social issue.  
3- Participated in Table tennis, Cricket and Tennis tournaments.  
4- Participated in a Class level Debating Competition.

# RUSHNA SHAH

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**Career Objectives**  
To obtain a position at a reputable company to gain experience and to achieve professional growth. Looking to apply my creativity and relevant skills to add value to the organization and society while keeping the integrity and organizational values intact.

## → EDUCATION

2022 BEE NUST School of Electrical Enginnering & Computer Science  
2018 F.Sc. Punjab Group of Colleges  
2016 Matric Nawaz Sharif Model Girls High School

## → WORK EXPERIENCE

July, 2021 Sep, 2021 Neuro-Informatics Research Lab, SEECS, NUST  
Detailed research work on the projects related to EEG based thought-to-text translation devices  
  
June,2019 July,2019 WWF-Pakistan  
30 hours of community service work and leading a team of 10 members in a community service project

## → PROFESSIONAL & TECHNICAL SKILLS

Programming C / C++ / Python / Assembly  
Simulation & Design AutoCAD, MATLAB, Simulink, Wireshark, LogixPro  
Management Project Management, Problem Solving  
Teamwork Leadership Skills, Communication Skills

## → ACADEMIC PROJECTS

Implementation of Energy Management System using C language  
Computer User's Activity Monitoring System using C++  
Smart AC Controller using Integrated Circuits  
Profit Predictor for a Food Truck using Regression Techniques  
An EEG based Thought-to-Text Translation Device for the Disabled People

**Achievements**  
Successfully completed a semester-long leadership and development program of Millennium Campus Network Class of 2019-Project Street School

**Community Involvement**  
Completed 10 hours of community service at WWF Clean-up Drive 'Catch the Trash' - 2019  
  
Participated in Clothes Donation Drive conducted by Chadar-NUST  
  
Participated in Blood Donation Drive and conducted by NCSC-NUST

**Extra Curricular Activities**  
Executive Member of IEEE-NUST  
Executive Member of ACM-NUST  
Member of NUST Debating Society  
Member of NUST Community Services Club  
Participated in MLH Local Hack day 2018



## Saad Bin Muhammad

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### Career Objectives

An electrical engineer with an immense interest in application-based programming, especially related to Web Development, Machine Learning, and Artificial Intelligence. My objective is to secure a position in a dynamic and progressive organization that draws on my motivation and knowledge, as well as programming, technical and interpersonal skills to work towards the objectives and goals of the organization.

### → EDUCATION

2022 BE Electical School of Electrical Engineering&Computer Science, NUST

2018 A - Level Dharan British Grammar School

2016 O - Level Manarat Al-Sharqia

### → WORK EXPERIENCE

Aug2021 Sep2021 Signal Processing and Machine Learning (SIGMA) Lab

Deep Learning Intern - Using Computer Vision and Deep Learning, a complete crowd management system was made in which we implemented Face Mask Detection, Social Distancing Monitoring, and Crowd Counting

### → PROFESSIONAL & TECHNICAL SKILLS

AI Computer vision, openCV

AI Machine Learning, Python libraries for ML

Programming C/C++, Python

Web Development HTML, CSS, JavaScript, Bootstrap, jQuery, NodeJS

### → ACADEMIC PROJECTS

Home Security System - Using FreeRTOS, an Arduino Uno, and STM32, I created a home security system that used multiple different sensors.  
Real-Time Spam Detection - Created a machine learning model using python and ML libraries, that could distinguish between spam and ham message/emails



#### Achievements

Completing O Levels & A Levels  
Successfully completing numerous projects throughout my bachelors degree in Electrical Engineering

#### Community Involvement

Member of NUST Community Service Club (NCSC)  
Community Service Project Participant

#### Extra Curricular Activities

Member of Football Team  
Executive at NUST Community Services Club (NCSC)



## SAHAR ZAHID-ELECTRICAL ENGINEER

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### Career Objectives

Passionate to do work and learn new things, currently in the Final Year of Electrical Engineering at National University of Sciences and Technology, Islamabad, would like to gain the necessary experience required for an Electronics, Embedded Systems, Deep-learning and DSP oriented work, always seek knowledge from all sources that can enrich my knowledge and to bring out the best in me for my career.

### → EDUCATION

2022 BEE SEECS,National University of Sciences and Technology,Ibd

2018 F.Sc(Pr-Eg) Fazaia Inter College, E-9, Islamabad

2016 Matric (Sci) F.G Fazaia Secondary School (2nd Shift), E-9, Islamabad

### → WORK EXPERIENCE

From:July ToSep'21 Organization: Smart AgriTech Lab, NICHE, NUST

-Trained a yolov5 model for customized vehicle detection and classification using video and image processing.  
-Deployed the model on NVIDIA Jetson Xavier NX.

### → PROFESSIONAL & TECHNICAL SKILLS

Embedded System FreeRTOS, Embedded C

Languages C/C++, Python Basics

Technical Skills Deploying deep-learning models on Jetson Nano/XavierNX

Soft Skills MATLAB Coding,Microsoft Office(Word,Power Point,Excel)

### → ACADEMIC PROJECTS

- Final Year Project: Smart Traffic Control System (Embedded Systems and Deep-learning based solution for traffic surveillance using video processing i.e. Audio and image classification)  
- Semester Project: Smart AC Controller using Digital Logic, verified on Proteus  
- Localized Carbon Footprint Calculator using C++

#### Achievements

-2nd Training Camp, 49th International Physics Olympiad (01/2018 - 02/2018)  
-STEM Careers Programme, National Physics Talent Contest, PIEAS (2017)  
-IBM Startup Competition (03/2021)  
-PEC Online Leadership Programme 1.0 CPD (Nov-Dec,'20)

#### Community Involvement

-NUST Student Forum, SEECS; Director, Endowment Fund (10/2020 - Present)  
-NUST Chadar Society (06/2021 - Present)-HR Executive  
-NUST Association for Computing Machinery(ACM)  
SEECS Chapter (01/2022 - 06/2021) External Relations Exec.  
NUST Youth Entrepreneurial Society, HR Executive (11'20-06'21)

#### Extra Curricular Activities

-Essay Writing  
-Badminton at School Level  
-Urdu Poetry Writing  
-Baking





# S AHMAD

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Career Objectives  
Looking for an opportunity as an Electrical Engineer to use my knowledge in the area of various electrical systems for the benefit of the company and myself.

## EDUCATION

- 2022 BEE SEECS, NUST
- 2018 Intermediate Punjab College
- 2016 Secondry Army Public School

## WORK EXPERIENCE

- 2021 2022 Chadar  
Lead the team of street store as Director. I managed all the operations of street sotre along with my team.
- 2020 2021 NUST Digital Club  
Deputy Director Marketing: Devised marketing strategies for succesful executions of events.

## PROFESSIONAL & TECHNICAL SKILLS

- EE Matlab, LogixPro, Proteus, PSPICE , LabVIEW, Arduino
- Computer Science C++, C, Assembly Language, Arduino
- Soft Skills MS OFFICE , Logic Building , Proficient in English
- EE Soldering , Prototyping , Basic Electrcial Safety

## ACADEMIC PROJECTS

- PWM vs MPPT Solar Charge Controller.  
Designed a Buck Convertor.  
Tic-Tac-Toe in C++.  
Arduino Based Cooling DC fan.

## Achievements

Honors, Awards or any other Worth Mentioning Achievements

Director Street Store Chadar, Present  
Lead the team in four successful street stores. Distributed over 1700 articles to underprivileged people.

Team Lead  
Project Sahara, (September 2020)  
Lead the cloth donation drive in Rahim Yar Khan city with the help of volunteers during pandemic

Deputy Director Marketing  
NUST Digital Club (2020)  
Part of OC which organized the Photography competition in NUST H12.

Executive Admin Events  
NUST Media Club (2018-2019)  
Earned best executive in Admin events team



# Shaharyar Akmal Chaudhry

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LinkedIn profile

Career Objectives  
Final Semester Electrical Engineering student with majors in domain of power systems and power electronics. Focused to secure a responsible career and to benefit the respective firm by deploying technical skills and related experience through continous learning and modern research

## EDUCATION

- 2016 Matriculation Asif Public School System, Rawalpindi
- 2018 Pre-Enginee Punjab College of Information and Technology, Rawalpindi
- 2022 BEEE National University of Sciences and Technology, H-12

## WORK EXPERIENCE

- 17/01/22 18/02/22 Pakistan Water and Power Development Authority  
Detailed analysis of operational, control and transmission engineering of a hydel turbine. Also participated in testing of switchyard circuit breakers through CIBANO 500.
- 15/9/20 13/10/20 Oil and Gas Devlopment Company limited (OGDCL)  
Was attached with Exploration and Geological Services Mudd logging sub unit. Also participated in annual maintenance of drill rig. Detailed analysis of all sensors used in drill and control room interface.

## PROFESSIONAL & TECHNICAL SKILLS

- Power Systems Multiple projects on Matlab, Simulink and Power world sim
- Electronics worked and designed various electronics converter
- Industrial Process Worked on PLC's and various automated process control
- Control Systems Implementation and of various controller topoloy for stability

## ACADEMIC PROJECTS

- 1.Virtual Synchronous Generator(Final Year Project)
- 2.Photovoltaic to 5V regulated buck converter
- 3.1x4 Wilkinson Power Divider

## Achievements

Director Logistics at Student Government Authority.  
Involvement in multiple Community Services related projects.  
Participated in mega events like ICMAC and HONET.

Member of inter departmental Cricket team,  
Event Management,  
Performed at SEECS Got Talent



# SHANZAY JAVED

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LinkedIn profile

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Career Objectives

To give back to the society and polish my technical as well as interpersonal skills with the aim to grow with the organization that I am a part of and add value to it.

## → EDUCATION

2022	BEE	National University of Sciences and Technology
2018	Fsc	APSACS Hamayun Road
2016	Matric	APSACS Hamayun Road

## → WORK EXPERIENCE

7/2021	9/2021	Nescom
I developed a Distributed Sensing and Monitoring (DSM) System which could be further extended in multiple industrial applications. Many different sensors and UART wire communications were used.		

## → PROFESSIONAL & TECHNICAL SKILLS

Programming	C, C++
Simulation	Pspice,Multisim,Verilog,Proteus,Wireshark,LABVIEW
Team building	Team work, Time management, Leadership
Other Softwares	MATLAB, Simulink, MS office

## → ACADEMIC PROJECTS

Electronic Load Controller
Prayer Reminding System (PRAISE)
Computer based Online Shopping Management Organizational System (COSMOS-C++)
LCD configuration using ATmega16-A

### Achievements

Hosting an international conference ICMAC'21  
IST space week, space suit designing

### Community Involvement

"Project Insaniyat" Ration drive  
Ramadan Ration drive 2022  
Wheelchair distribution 2022

### Extra Curricular Activities

Joint Secretary Sports council (SGA)  
Executive Publications (IEEE)  
Seecs Debating Chapter (Speakers pool)  
Nust Media Club (Talent pool)  
Executive publications ICMAC'21

# Sidra Amin

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LinkedIn profile

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Career Objectives

To gain experience and polish my skills in order to have a better future career

## → EDUCATION

2022	BEE	SEECs, NUST H-12 Islamabad
2018	FSc	Army public College Kharian Cantt
2016	Matric	Army public School Kharian Cantt

## → WORK EXPERIENCE

2021	2022	RIMMS NUST
Worked on my final year project using ADS and CST software and did testing in Microwave devices in antenna lab and Antenna testing using the Anechoic chamber facility in RIMMS NUST H-12 Islamabad		
2020	2021	Deputy Director HR Nust Character Building Society
HR responsibilities that are to keep check and balance of the whole team that everybody is doing their work in a structured manner.		

## → PROFESSIONAL & TECHNICAL SKILLS

Antenna Design	Use of CST software, how to use VNA for antenna testing
RF circuit designing	ADS software , PCB design
Electrical circuits	Protues software
Interpersonal skills	Team work, Time management , Efficient communication

## → ACADEMIC PROJECTS

Design and development of an IC based RF receiver (final year project)
Library Management system (C++)
Rock Paper scissors game (Logic design)

### Achievements

### Community Involvement

Teaching Experience:  
  
Volunteership at Street school Rawal Town Islamabad.  
  
Food drive :  
  
Participated in Food Drive as a part of our Community service project.

### Extra Curricular Activities

Badminton  
  
Mirror Painting  
  
Arts and crafts





# Syed Ali Hasany

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Career Objectives  
Looking towards gaining experience in the industry and honing my electrical engineering skills

## → EDUCATION

2022 BEE National University of Sciences and Technology  
2018 A-level The City School  
2016 O-level The City School

## → WORK EXPERIENCE

05/2021 08/2021 Cognitive Networking Research Laboratory (COGNET)  
Setting up an End-to-End verifiable EVM (Electronic Voting Machine) using Microsoft ElectionGuard

07/2019 08/2019 SYNTEC CNC  
Siemens PLC programming on SIMATIC Step 7

## → PROFESSIONAL & TECHNICAL SKILLS

Control Systems MATLAB/ Simulink, Delfino microcontrollers  
Digital Systems Verilog, Intel FPGAs, Quartus Prime, ModelSim  
Industrial Control PLC programming, Allen-Bradley PLCs, SIEMENS PLCs  
Public Speaking Debating

## → ACADEMIC PROJECTS

FYP: Nonlinear Control Algorithm to regulate DC Bus Voltage of an Electric Vehicle  
Implementing a Quasi-Z-Source inverter on breadboard  
Audio signal reconstruction and noise filtering using, Gas detector using Arduino

### Achievements

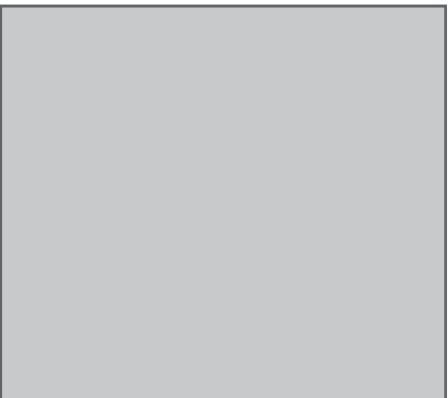
Finalists of British American Tobacco Battle Of the Minds 2021 (GBOM 2021)

### Community Involvement

Volunteer at Shaikh Zayed Hospital, Lahore  
Volunteer at Shaukat Khanum Memorial Hospital, Lahore  
Intern at Punjab Revenue Authority

### Extra Curricular Activities

Member of NUST Debating Society (NDS)  
Represented NUST in the quarter-finals at Lahore Open 2020



# Talha Khalid

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Career Objectives  
I wish to prove myself every step of the way and not only achieve but earn excellence. Highly motivated Electrical Engineer with majors in Embedded Systems, Computer Architecture and Computer Vision. Keen and focused team player who is resilient and communicates appropriately.

## → EDUCATION

2016 Matriculation Federal Science College  
2018 FSc Punjab College of Science ,Gujranwala  
2022 BEE National University of Science and Technology (NUST)

## → WORK EXPERIENCE

July, 21 Sept.,21 Integrated Circuit (IC) Design Lab, NUST.  
I was a research intern working with Deep Learning and its integration into proprietary hardware.

### Community Involvement

I, along with my groupmates, organized iftar drives for needy people in ramzan.  
  
I, along with my groupmates, organized donation drives and provided sewing machines to help provide a livelihood to underprivileged women.

### Extra Curricular Activities

## → PROFESSIONAL & TECHNICAL SKILLS

Electrical Digital and Logic Design, simulations and Analysis.  
Programming Functional and Object Oriented C/C++, Python and Java.  
Embedded Verilog,RTOS,Embedded C++,FPGA,Arduino,STM32,ESP.  
Softwares Proteus 8.0, Atmel Studio 7.0, PSPICE, MatLab.

## → ACADEMIC PROJECTS

Chess in OOP(C++)  
VGA Controller and Lines Drawing Algorithm using Verilog HDL (Hardware)  
Processor using Verilog HDL that runs instructions (Hardware)  
Embedded Design of a Real-Time Smart Clock (Hardware)  
FYP: Real Time Video Surveillance Anomaly Detection System on the Edge.





NAWAZ

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LinkedIn profile LinkedIn ID

Career Objectives  
I am aspiring to graduate as an electrical engineer and the continue the postgraduate in the field of solar energy.

→ EDUCATION

2016 Matric POF Model High School Wah Cantt  
2018 FSc. FG Degree Collage For Men Wah Cantt  
2022 BE Electrical SEECS NUST

→ WORK EXPERIENCE

Aug 2021 Sep 2022 Gadoon Textile Mills Topi Swabi  
Worked as an Intern in their electrical department learning about the working of the machines involved in cloth making

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

→ PROFESSIONAL & TECHNICAL SKILLS

Circuit Design Simulink  
Video Editing Premiere Pro  
Field Technical and Soft Skills  
Field Technical and Soft Skills

→ ACADEMIC PROJECTS

Dual Axis Intelligent PV Tracker (2021-2021)  
Hotel Management System (2019)

Achievements

Honors, Awards or any other Worth Mentioning Achievements

Community Involvement

Blood Donation Drive

Extra Curricular Activities

Video Editing  
Photoshop  
Cricket



Muhammad Umair

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Career Objectives  
Hardworking  
Adaptive  
Enthusiastic

→ EDUCATION

2016 Matric Cathedral High School # 4 Model Town Lahore  
2018 FSc Government College University (GCU) Lahore  
2022 BSEE NUST H12 Islamabad

→ WORK EXPERIENCE

07/06/21 09/08/21 Real Time Intelligent Secure Computing Research Lab  
Brief summary of key responsibilities - work / research experience  
Designing an extension to be added with RISC-V 32-bit integer core for vector processing particularly for neural

Community Involvement

Installed 2 water coolers in Masjid  
Conducted Food Drive in Ramadan

→ PROFESSIONAL & TECHNICAL SKILLS

Programming C/C++/Python  
Micro-controller ATMega 16,STM32  
Hardware Design Verilog,ModelSim  
SoftSkills Dynamic, proactive, responsible , Problems solving

→ ACADEMIC PROJECTS

Processor Design  
Design and implementation of a processor with ability to perform four basic operations and designing of the control path using finite state machine (FSM) in Verilog VHDL Intel Quartus Prime

Achievements

Certificate of appreciation for academic excellence in Matric

Community Involvement

Installed 2 water coolers in Masjid  
Conducted Food Drive in Ramadan

Extra Curricular Activities



# Usama Ahmad

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## Career Objectives

Graduating Student currently finalizing bachelor's in electrical engineering with majors in Communication Systems and Control Systems from NUST and prepared to contribute to organizational success while developing new skills and gaining real-world experience.

## EDUCATION

'16	Matric	Al-Quran Children Academy
'18	FSC	The Peace College Mansehra
'22	BEE	SEECs, NUST

## WORK EXPERIENCE

9/5/22      9/8/22      Huawei  
Working on an IP project for Jazz at Huawei as an Intern.

13/7/21      27/8/21      PTCL  
I had different workshops about the indoor equipment like DSLAM, and I was given a basic idea about FTTH and GPON technologies which are currently being deployed by PTCL. I also got a chance to do some field visits with my supervisor where I learned about MSAGs and distribution points.

## PROFESSIONAL & TECHNICAL SKILLS

MATLAB	Technical
Routing and Switching	Technical
ENSP	Technical
Strong computer networking concepts	Technical

## ACADEMIC PROJECTS

- Artificial Pancreas Using Non-Linear Control
- Head to Head, 2 player Fighting Game (C++)
- ChatBox(Python)
- 12-Bit Arithmetic Adder and Subtractor Unit (Hardware)
- 4-Bit Micro-Controller (Hardware)
- LCD controller Circuit (Hardware)

## Achievements

- Best Young Player Medal at District Mansehra Badminton Tournament. (2015)
- NUST Inter-Schools Badminton Champion.(2021)

## Community Involvement

Head of operations Project Nigheban Chaddar Street Store volunteer

## Extra Curricular Activities

- Elected as Head Boy of the School (2014)
- Best Young Player Medal at District Mansehra Badminton Tournament. (2015)
- College Badminton Team Captain. (2016-2018)
- Director Media NUST Bazm-e-Pakistan.(2019)
- Photographer IEEE SEECs.(2020)
- SEECs Badminton Team Captain. (2021)
- NUST Inter-Schools Badminton Champion.(2021)
- House Captain at SEECs Gala.



# Usama Arif

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## Career Objectives

Graduating Electrical Engineer looking for the perfect opportunity in the corporate world to learn new skills and gain real-world experience while contributing to the success of the organization.

## EDUCATION

2022	BEE	National University of Sciences and Technology
2018	A Level	Engro Grammar School
2016	O Level	Engro Grammar School

## WORK EXPERIENCE

29-07-21      25-08-21      Engro Fertilizers Limited  
I was introduced to some of the widely used devices in field instrumentation like pressure, level, temperature and flow transmitters as well as DCS and PLCs. Designed a maintenance and calibration regime for a Siemens analyzer.

27-06-19      30-07-20      Engro Foundation  
Interviewed beneficiaries of Engro Foundation's livelihood project and wrote success stories for the newsletter.

## PROFESSIONAL & TECHNICAL SKILLS

EE	MATLAB, LabVIEW, PSpice, PLCs, Proteus
Other	C/C++ Programming, AutoCAD, MS Office
Soft Skills	Communication and Presentation, Teamwork, Punctuality English Speaking and Writing, Problem Solving

## ACADEMIC PROJECTS

- > Design of Artificial Pancreas and Controller (Final Year Project)
- > Photovoltaic to 5V Regulated Buck Converter.
- > 3-Digit Number Guessing Game.
- > Analogue Multimeter in LabVIEW.

## Achievements

## Community Involvement

Intern at Engro Foundation.  
Volunteer at Chadar Street Store.  
Orphanage Centers (Edhi Home and Noreen Zindagi Welafr Trust Home) visit under Project Nighebaan.

## Extra Curricular Activities

Executive Team External Relations at IEEE.  
Executive Team Liaison at Nust Physics and Astronomy Society.  
Volunteer at Chadar Street Store.  
Director Security at MUNEG.  
Co-director Registrations at MUNEG.



# Uswa Syed

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## Career Objectives

A hard-working individual with exceptional collaborative and interpersonal skills, motivated in building a career in the fields of Electrical, Electronics, and Telecommunication Engineering.

## EDUCATION

2022	BEE	National University of Sciences and Technology (NUST)
2018	A'Levels	Beaconhouse School System (BSS)
2016	O'Levels	Beaconhouse School System (BSS)

## WORK EXPERIENCE

May 2022 Present Freelancing

Research based content writing for websites.

Nov 2021 Dec 2021 Director Human Resources ICMAC'21

Led a team of 4 members to manage the database of 61 members in the organizing committee of the 1st International Conference on Microwave, Antennas & Circuits.

## PROFESSIONAL & TECHNICAL SKILLS

Power Electronics	MATLAB, PSpice, LabView
Programming	Atmel Studio, Visual Studio, Arduino
Telecommunication	ADS, CST Studio, Antenna Design, Transceiver Design
Soft Skills	Communication, Teamwork, Leadership

## ACADEMIC PROJECTS

- Design and Implementation of a Switch-Mode AC-DC Power Converter
- Frequency Division Multiplexing
- Transceiver Design
- Prayer Reminder and Automated Indication System Electronic (PRAISE)

### Achievements

- Full Scholarship in A'Levels
- Debate Competition Winner at School Level
- Winner of SEECS Got Talent'21

### Community Involvement

- Conducted a Ration Drive that provided 28 families with the essential food items during Ramzan'22.
- Provided 10 wheelchairs for needy individuals with disabilities.
- Nur Student Leadership Program at Fatima Memorial Hospital, Lahore.

### Extra Curricular Activities

- Singing
- Content Writing
- Badminton

# ZAINAB SAJJAD

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## Career Objectives

Seeking positions majorly in power, electronics, renewable energy, control and automation that can provide learning opportunities to practise my profession and practical experience extensively. A passionate electrical engineer with a four-year extensive learning experience in technology combined with an innovative and strategic business mindset and intriguing leadership skills.

## EDUCATION

2022	BEE	National University of Sciences & Technology, NUST
2018	FSc	PAEC Model College for Girls, Chashma
2016	Metric	PAEC Model College for Girls, Chashma

## WORK EXPERIENCE

5/7/2021 8/9/2021 System Optimization Lab, SEECS(NUST)

Internship  
-Worked on a product-based project "Solar Dehydrator".  
-Worked on dynamic modelling, design and fabrication of prototype.

15/7/2019 27/7/2019 Foundation Hydel Power Plant, Chashma

Internship  
-Visited Main Control Room (MCR) and field area of the plant.  
-Analyzed working of turbines, circuit breakers & transformers.

## PROFESSIONAL & TECHNICAL SKILLS

Programming	MATLAB,C,C++,Verilog,Arduino,
Softwares	Pspice,Autocad,QuartusPrime,LabVIEW,Proteus
Extra Skills	Video Editing, Microsoft Office, Animaker,Filmora
Soft Skills	Seed Fund Writing, Project Budgeting, Leadership

## ACADEMIC PROJECTS

- 1)Solar-Dehydrator(FYP)
- 2)DC-DC Buck-Boost Converter
- 3)Digital Medicine Box
- 4)Frequency Division Multiplexing
- 5)4-bit Crunching Machine
- 6)LCD programming
- 7)GEO-LEO satellite communication project





NUST School of Electrical Engineering  
and Computer Science (SEecs)

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