



Moiza Eman

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Education

FAST - National University of Computer and Emerging Sciences, Islamabad.

Bachelor of Science (Electrical Engineering)

2025

Major: Electronics

Punjab College, Sialkot

2020

F.Sc (Pre-Engineering)

Allama Iqbal Public High School (Private)

2018

Matric (Science)

Projects

Final Project: Realizing Subaquatic World using Remotely Operated Vehicle (ROV)

ROV is a system essential for underwater exploration, offering advanced capabilities for tasks such as assessing dam walls and locating submerged objects, including dead bodies in dam reservoirs.

Semester Projects:

IoT Solar Monitoring System

Designed and Implemented to measure power, voltage and current using an ESP32 microcontroller, InfluxDB and AWS for storage and visualization.

Buck-Boost Converter

Designed and Implemented Buck-Boost Converter for ROV thrust system on MATLAB Simulink.

Temperature controlled DC fan

Design a model using ATmega32 that controls a fan by detecting room temperature.

Public Addressing System

Designed an electronic amplification system for public communication using MOSFET and BJT.

Digital Stopwatch

Simulated and Implemented on Printed Circuit Board using logic gates.

Regulated DC Power Supply

Created a 5V regulated DC power supply.

Work Experience

Engineering Intern at **LearnOBots (Pvt) Ltd.**

Assisting the core engineering team in designing projects & activities like robotics and Programming.

July 2023

Engineering Intern at **TDMF Department MTC, NESCOM**

Troubleshooting & testing PCBs, Learning about development process of sensors and transducers.

July 2024 – August 2024

Skills & Tools

Professional Skills

Team Work, Team Management and Project Management.

Technical Skills

MATLAB, C++, Atmel, Arduino, AUTOCAD, Proteus, SolidWorks, PCB Designing, STM Studio.

Achievements

Runner up at NaSCon DLD Project Exhibition Competition.

Trainings / Certification

Engineering Possibilities at Unilever Pakistan Ltd. (Batch 2023)

Training on Robotics & Automation, Product Technology, Data Analytics & Digitization, Research & Development

Activities

PCB Designing Workshop

Augmented Reality Seminar

Technical and Business Writing Seminar

Interests

Reading and Painting