Muhammad Wafa Haider

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Education

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

Bachelor of Science (Electrical Engineering)	**2024**
Major: Electronics	
The Mentor Group of colleges, Islamabad	**2019**
F.Sc (Pre-Engineering)	
The Mentor Group of colleges, Islamabad	**2017**
Matric (Science)	

Projects

**Final Project:** **Realizing subaquatic life using Remotely Operated vehicle (ROV):** Developing and deploying an ROV system along with live video streaming capabilities aimed at detecting submerged Dead bodies and identifying structural cracks on dam walls.

**Semester Projects:**

IOT based Weather station
Designed an IOT based weather station using ESP8266.

HVDC System
Design an HVDC system for long Distance power transmission using Simulink.

Regulated DC Power supply
Created regulated full-bridge rectifier to output 6V DC.

Room Automation [atmega32, ASM Language]
Implemented the circuit and coded ATMega32 to automatically detect when someone enters room and turns on lights & fans.

Public Addressing System [MOSFET and BJT]
Designed the Amplifier.

Wireless charger
Created a circuit for wireless transmission of electric power to charge a mobile

Digital AC Power meter
Measured the Active, Reactive, Apparent powers, voltage, current and Phase difference.

Work Experience

IC Design Intern at **National Institute of Electronics, Islamabad** Worked on digital and analog IC design flow using Cadence design tools.	**Jul 2024 – Aug 2024**

Skills & Tools

Professional Skills	Teamwork, Time Management
Technical Skills	MATLAB, C++, Atmel, Arduino, AUTOCAD, Proteus, Verilog, Altium

Achievements

Organized a seminar regarding the 2-day techno-social event ISYWSC which is an official IEEE Event. In this position I lead a team of 5+ people and organized seminar related Inclusion of Technology in Medical Industry.

Organized and presented an introductory workshop related to designing PCBs for 1st and 2nd year students at FAST-NUCES, Islamabad.

Trainings / Certification

Multilayer PCB Design using Altium (Fedevel Academy)
Electronics in Biomedical Engineering: Theory & Repair

Activities

TEAM HEAD AT ISYWSC'22

Interests

Watching documentaries related to History