Noman Hussain

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Education

FAST - National University of Computer and Emerging Sciences, Islamabad.	
Bachelor of Science (Electrical Engineering)	**2024**
Dr. A.Q.Khan	**2019**
F.Sc (Pre-Engineering)	
Dr. A.Q.Khan	**2017**
Matric (Science)	

Projects

Final Year Project:

Hybrid Energy Utilization System (HEUS)
- Designed and implemented a system to capture energy from regenerative braking in non-electric vehicles.
- Developed an integrated Motor Control Unit (MCU) to store captured energy in a battery and convert it to AC for household use.
- Conducted simulations and hardware testing to ensure efficient energy conversion and utilization. .
- Tools and Technologies Used: MATLAB, Simulink, Microcontrollers, Power Electronics, and Embedded Systems.

Semester Projects:
- Wearable Healthcare Device. (IoT)
- Smart City Traffic Monitoring System Using Raspberry Pi. (IoT)
- Predictive Analytics for Flight Delays. (Machine Learning)
- Designed a Low Power Embedded Sensor Node to Monitor Structural Health of a Dam. (Embedded Systems)

Work Experience

- **Mari Petroleum Company Limited** – Islamabad | June 2022 – Sep 2022 as a Technical Site Intern - **CalliumCode** – Islamabad | Feb 2024 – Current Assistant Engineer/Project Manager	**Jun 2022 – Aug 2024**

Skills & Tools

Professional Skills	Machine Learning, Embedded Programming Proteus, MATLAB, Jupiter Notebook, STM32CUBEIDE, ArdinoIDE, Labview, Excel, Word , AWS, C ,C++, Python , HTML, CSS
Technical Skills	Project Management, Project Deployment, Client Relationship Management

Achievements

- **Project Leadership:** Led key aspects of final-year project development, including system design and implementation for a Hybrid Energy Utilization System.
- **Internship Experience:** Successfully completed a technical internships with practical exposure to energy management systems.

Trainings / Certification

- AWS Cloud Foundations (12/2023)
- Python Fundamentals (05/2023)
- MATLAB (Beginner) (09/2022)

Activities

- Head of Logistics at IEEE, managing event operations and resources.

Interests

- Embedded systems development
- Event management and logistics