SYED MUHAMMAD NOMAN

Computer Systems Engineering Student

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Professional Summary

Aspiring Computer Systems Engineer with a specialized focus on low-level programming and hardware-software integration. Proven track record in developing OS-level utilities in C and building microcontroller-based systems using ESP32 and Arduino. Adept at bridging the gap between complex software logic and physical hardware implementation.

Technical Skills

Programming Languages

- C/C++ (Strong)
- Python (Beginner)
- Bash Scripting
- MIPS Assembly
- HTML/CSS

Tools & Software

- Arduino IDE
- MATLAB
- Proteus
- PSPICE
- QtSpim
- VMWare

Hardware & Engineering

- Digital Logic Design
- Circuit Analysis
- Microcontroller Interfacing
- Embedded Systems

Professional Skills

- Technical Documentation
- Team Collaboration
- Problem Solving

Project Experience

System Resource Monitor with Alerts (C / Linux)

Developed a real-time system monitoring tool to track CPU, RAM, and disk usage with threshold-based email alerts. Gained exposure to process management and system calls.

File Splitter and Merger Tool (System Programming)

Created a utility to split large files and reconstruct them using metadata. Implemented MD5, SHA1, and SHA256 for integrity verification.

Soccer Bot (Embedded Systems)

Developed a mobile-controlled robot using ESP32 and motor drivers, implementing wireless control and power regulation.

Automated Car Parking System (Arduino)

Designed a smart parking system using IR sensors and LCD to detect vehicle presence and display space availability.

Education

BS in Computer Systems Engineering

University of Engineering and Technology (UET), Peshawar
Expected July 2027

F.Sc Pre-Medical (Additional Mathematics)

Edwardes College, Peshawar
Completed July 2022
Marks: 995/1100

Matric (Science)

Edwardes College School, Peshawar
Completed April 2020
Marks: 1029/1100

Additional Information

- **Languages:** Pashto (Fluent), Urdu (Fluent), English (Professional)
- **Interests:** Cybersecurity, Networking, Hardware-Software Integration
- **Hobbies:** Chess, Puzzle Solving, Reading Novels