



Shahmeer Ali Mirza

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Education

FAST - National University of Computer and Emerging Sciences, Islamabad.		
Bachelor of Science (Electrical Engineering)		2025
Major: Embedded Systems		
Punjab Group of Colleges		2019
F.Sc (Pre-Engineering)		
Army Public School		2017
Matric (Science)		

Projects

Final Project: IoT-Based Automated Pet Feeder Using RFID: [Deep Learning Neural Network] Designed and developed an IoT-enabled pet feeding system that utilizes RFID technology to identify pets and dispense food automatically. The system integrates with cloud storage for data logging and remote monitoring, ensuring efficient and scheduled feeding.

Semester Projects:

Pakistan Post Office System (C++)
Developed a comprehensive Pakistan Post Office system as part of a university project, employing Object-Oriented Programming (OOP) principles and Programming Fundamentals using C++.

Temperature Control Stepper Motor Using AVR:
Implemented temperature control for a stepper motor using AVR microcontrollers, showcasing proficiency in AVR programming and embedded systems development.

Database Design and Implementation:
Developed skills in ER modeling, SQL, and database management through PostgreSQL and MySQL projects, including scheduling systems and sports team records.

VPN and Firewall Configuration:
Configured VPN and firewall using virtualization, set IPs, restricted website access, and implemented TAP and TUN VPNs. Verified network security and connectivity.

Embedded-Based Low-Power Dam Health Monitoring System
Developed an embedded system for real-time dam health monitoring, optimizing power consumption while ensuring reliable data collection and analysis for structural safety assessment.

Network Traffic Analysis:
Conducted in-depth analysis of NetFlow and Wireshark data to identify malicious activity, anomalous patterns, and potential security threats, showcasing expertise in network forensics and incident response.

Networking and Traffic Analysis:
Performed labs on Wireshark and Packet Tracer to analyze various types of network traffic, including HTTP, DNS, TCP, and ICMP.

Work Experience

Intern at Cyber Privilege Pvt Ltd	Jun 2024 – Aug 2024
Conducted VAPT, identified security gaps, created detailed reports with remediation steps, and assisted in forensic analysis.	

Skills & Tools

Professional Skills	Team Work, Team Management, Team Organization and Anger Management.
Technical Skills	MATLAB, C++, Python, ESP32, Arduino, Proteus, Cisco Packet Tracer.