Huzaifa Sardar

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Askari 14, DHA phase 4, Islamabad.

Education

FAST - National University of Computer and Emerging Sciences, Islamabad.		
Bachelor of Science (Electrical Engineering)		**2025**
Major:	Electronics	
Military College Jhelum, Sarai Alamgir		**2020**
F.Sc (Pre-Engineering)		
Military College Jhelum, Sarai Alamgir		**2018**
Matric (Science)		

Projects

Final Project: **Vehicle License Plate Recognition using Deep Learning Neural Network: [Deep Learning Neural Network]** System to check the Number Plates and save the License Number of the Vehicle that enters or leave the building or the city.

Freelance Project:

Designing Customer desired shape PCB for 2x2mm Addressable LED Lights
Designed Simulation and PCB

PLC Ladder Network For 4-way Traffic Control System with Pedestrian Lights
Designed network and Implemented on hardware.

Semester Projects:

Smart Door Lock System [STM32 Nucleo Board, C language]
Designed Simulation and Implemented on hardware.

EMI (Electromagnetic Interference) Filter [X2 and Y2 Capacitor and Common Mode Choke]
Designed Simulation and Implemented on hardware.

Buck Boost Converter [Matlab]
Simulation on the Matlab Simulink.

Line Following Fire Truck [atmega32, ASM Language]
Designed and Implemented on the Hardware.

AC Voltage Regulator [MOSFET and BJT]
Designed Simulation and Implemented on hardware.

Basic and Universal Logic gates tester [Logic Gates]
Designed Simulation and Implemented on hardware.

Energy Monitoring System [Arduino UNO, Bridge Rectifier, ACS712 30A)]
Simulated and Implemented it on the hardware.

Work Experience

Intern Electrical Engineer at Ali Amin Ahmed (AAA) Builders PVT limited. Worked on Grey structure three phase wiring system of OCTA Commercial Project in Bahria Phase 8, Islamabad	**Jun 2024 – Aug 2025**

Skills & Tools

Professional Skills	Team Work, Team Management, Team Organization,
Technical Skills	MATLAB, C++, Python, Atmel, Arduino, AUTOCAD, Proteus, Cadence, Step 7, STM Cube IDE

Achievements

Microcontroller Programming: Programmed microcontrollers for precise sensor and motor control.
Hardware & Software Integration: Integrated hardware and software to create seamless, functional systems.
Sensor Utilization & Data Processing: Used sensors to collect real-time data and drive intelligent decisions.
Design Optimization: Enhanced system efficiency by refining speed, size, and performance.
Teamwork & Project Management: Collaborated effectively to achieve project goals and deadlines.
Traffic Management Solutions: Designed smart systems to improve traffic flow and road safety.

Interests

Hangouts, Hiking, Watching and working on Smart control system projects, Watching sensors working of automobiles, Watching Anime, season, movies and Dramas.