Gul Hameed Khan

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P/O Rokhari Paka Tehsil and District Mianwali, Mianwali.

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Education

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

Bachelor of Science (Electrical Engineering)	**2025**
Major: Electronics	
Punjab College, Mianwali	**2020**
F.Sc (Pre-Engineering)	
Al-Suffah College, Mianwali	**2018**
Matric (Science)	

Projects

Final Project: **IoT-based Energy Consumption Monitoring and Electricity Bill Forecasting in a Net-metering System.**
Developed a system to monitor energy consumption and forecast electricity bills using IoT technology in a net-metering environment.

Semester Projects:

Bank Management System:
Designed and implemented a system to manage banking operations efficiently using C++.

Wireless Charge:
Developed a wireless charging system for electronic devices.

Password Security System:
Created a secure password management system to enhance data security.

Obstacle Avoiding, Heat Sensor, and Line Following Robot:
Designed and implemented a robot capable of avoiding obstacles, detecting heat, and following lines.

Circuit Breaker Installation (Simulink):
Simulated the installation and operation of a circuit breaker using Simulink.

Design Mercedes Benz (AutoCAD):
Created a detailed design of a Mercedes Benz vehicle using AutoCAD.

Complex Engineering Problem (Analog and Digital Communication):
Solved complex engineering problems related to analog and digital communication systems.

Image Processing (MATLAB):
Implemented image processing techniques using MATLAB for various applications.

IoT-based Smart Energy Meter:
Developed a smart energy meter using IoT technology for real-time energy monitoring.

IoT-based Streetlight Controller System:
Designed a system to control streetlights efficiently using IoT.

Buck-Boost Converter Design for Precision ROV Thruster Control in Underwater Applications:
Designed a buck-boost converter for precise control of ROV thrusters in underwater environments.

Skills & Tools

Professional Skills	Team Work, Team Management, Team Organization and Anger Management, Project Management and Adaptability
Technical Skills	MATLAB, C++, Python, Atmel, Arduino, AutoCAD, Proteus, KiCad, Power Point, Excel, Microsoft Word, Visual Studio, Arduino IDE, Cadence Virtuoso , PCB designing &Fabrication, Lab View, HTML, CSS, Microcontroller programming, JavaScript, Assembly Language, Verilog, PLC programming

Achievements

Bronze Medal

Trainings / Certification

HTML
JavaScript
CSS
Graphic Designing

Activities