Muhammad Shahzaib Khan

Electrical Engineer

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P/O Daud khel, Mianwali, Pakistan

Electrical Engineering student with a basic foundation in power systems, DSP(Digital Signal Processing), and control systems. I've built hands-on experience through IoT, embedded systems, and FPGA projects — including developing a Video Processing Accelerator from the ground up. What drives me is the challenge of bridging hardware and software to create solutions that actually work in the real world.

EDUCATION

BS Electrical Engineering
Namal University Mianwali
2022 - 2026

Courses

- Digital Logic Design
- Embedded System
- CCN
- Electric Machine
- Power Electronics
- Computer Architecture
- Internet Of Things
- DSP
- Control System
- Electric Devices and Circuits

WORK EXPERIENCE

2 Month Internship
Agritech Limited(Pak American Fertilizer Limited)
Iskandrabad Mianwali
Acquired foundational exposure to industrial electrical systems, focusing on the roles of generators, motor windings, and transformers. Observed the integration of control panels and protective switchgear to see how theoretical concepts are applied in a high-voltage plant environment.

2 Weeks Training Programing
Centre For AI and Big Data Namal University Mianwali

CERTIFICATES

Namal Tech Expo 2022
Participant
Participation in the Line Following Rebort Competition

SKILLS

FPGA | Verilog/ RTL Design | Risc - V Assembly | Vivado/SDK | Gowin IDE | Modelsim | Matlab/Simulink | Proteous | ETAP | Cisco Packet Tracer | Programing in C,C++, Python | ESP32 /Aurdino uno Microcontroler

PERSONAL PROJECTS

Design and Development of Video processing Accelrator Using FPGA
Lead
Object Detection in DVP 5Mp OV5640 camera video streamthrough Thresholding technique on Starlite Pz7020

Implemented a hazard-free pipelined processor integrating with Wishbone bus architecture
Lead
RTL implementation of Design using Verilog Hard ware Description Language and Open Source Softwears

Line following Rebort
Lead
Using Aurdino Uno Microcontoler and LDR sensors

Voice recognizer system using Matlab
Lead

LANGUAGES

Urdu
Full Professional Proficiency

English
Professional Working Proficiency

INTERESTS

Digital Logic Design | Fpga Hardware | Risc - V Processor Architecture