



Muhammad Ijaz

Electrical Engineering Undergraduate

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📍 Mianwali, Pakistan

Electrical Engineering student with knowledge of power systems, communication, DSP, and control systems. Hands-on experience in IoT, embedded systems, and FPGA-based projects including smart health monitoring systems. Proficient in integrating hardware and software to solve real-world engineering challenges.

EDUCATION

BS Electrical Engineering

Namal University Mianwali

Oct 2022 - Present | CGPA 3.73/4.00

Courses

- Electric Machines
- Power Electronics
- Control Systems
- Digital Signal Processing
- Communication System
- Electronic Devices and Circuits
- Data Structure & Algorithms
- Computer Architecture
- Introduction to Machine Learning
- Internet of Things

WORK EXPERIENCE

Internship

ICD Lab & GF-MATRC at FAST NUCES

Work in the Analogue Integrated Circuit Design and Digital Analogue Design

Jul 2025 - Aug 2025 | Islamabad, Pakistan

Contact

Dr. Hassan Saif | +92 332 6802749

Internship

MEPCO, Office of Assistant Engineer(T), SS&T Subdivision MEPCO

132kV Grid Station Ahmed Pur East

Jul 2024 - Sep 2024 | Ahmed Pur East, Pakistan

Contact

Rana Muhammad Javed | +92 304 3908677

Teacher Assistant

Namal Office of Research, Innovation & Commercialization (ORIC)

Organization that work on Research and Development

Nov 2023 - Feb 2024 | Mianwali, Pakistan

Contact

Dr. Hamza Zad Gul | +92 321 9190297

SKILLS

AutoCAD(Electrical)

MATLAB/Simulink

Proteus

Networking(Cisco Packet Tracer)

RTL

Arduino IDE

Raspberry Pi Pico

RISC-V

Assembly

ESP 32

PROJECTS

FPGA Based smart health Monitoring system using RISC-V Core

Lead

Building an SoC and then integrate the sensors with RISC-V Core

RISC-V Pipeline Processor Design in Verilog

Role

Built a processor in Verilog that support 43 RISC V ISA Instruction

Data Analysis of ODI Cricketer Using C++

Group Project

Traffic Lights using BJT

Group Project

Sumo-War Robot Using Arduino Uno

Lead

Balloons Bursting Robot Using Arduino Uno

Compile code and Connect hardware

LANGUAGES

English

Professional Working Proficiency

Urdu

Native or Bilingual Proficiency

Saraiki

Native or Bilingual Proficiency

Punjabi

Professional Working Proficiency