



Ali Haider

Electrical Engineer Undergraduate

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Final-year Electrical Engineering student at Namal University with hands-on experience in FPGA design, RISC-V architecture, embedded systems, and PLC automation. Currently building an FPGA-Based Smart Health Monitoring System on a custom RISC-V core as FYP. Interned at NGC Sangjani Grid Station (220 kV/500 kV) and completed a PLC programming fellowship at Buildables. Seeking roles in Chip Design, SoC, FPGA, or Embedded Systems.

EDUCATION

Bachelor of Electrical Engineering

Namal University, Mianwali

Sep 2022 - Aug 2026

Courses

- Computer Architecture
- Control Systems
- Power Electronics
- Digital Logic Design
- Internet of Things
- Digital Signal Processing
- Embedded Systems
- Communication Systems
- Computer Networks
- Machine Learning

WORK EXPERIENCE

Electrical Engineering Intern

NGC – Sangjani Grid Station, Islamabad

Jun 2025 - Aug 2025

Accomplishments / Tasks

- Analyzed 220/500 kV safety protocols.
- Documented national transmission procedures with engineers.

PLC Programming Fellow

Buildables

Aug 2025 - Oct 2025

Accomplishments / Tasks

- Designed ladder logic programs using [Siemens LOGO! 8 PLC](#).
- Performed I/O mapping and fault handling.

President

Namal Sports and Adventure Club

Aug 2025 - Present

Accomplishments / Tasks

- Directed operations for extra curricular activities serving 500+ students

SKILLS

Verilog

SoC Design

MATLAB

AutoCAD

Machine Learning

Python

C / C++

PROJECTS

FPGA-Based Smart Health Monitoring System

Group Project

5-Stage Pipelined Processor

Lead

Self-Control Sumo Robot

Lead

Sleep Quality Predictor

Group Project

Self-Voice Detection in Multi-Speaker Audio

Lead

RFID-Based Smart Attendance System with Real-Time Database

Group Project

CERTIFICATES

Winners of Line Following Robot Competition

Namal University, Mianwali

RISC-V Processor - RV32I Base ISA

Maven Silicon

Certification of Participation - Namal Tech Expo 2024

Department of Electrical Engineering, Namal University

LANGUAGES

English

Professional Working Proficiency

Urdu

Native or Bilingual Proficiency