

# MUQADDAS ABDUL JABBAR

Electrical Engineer

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📍 Vehari, Pakistan

Detail-oriented engineer with practical experience. Skilled in problem-solving, teamwork, and quickly learning new technologies. Always eager to take on new challenges and contribute positively to any professional environment. Adaptable and capable of working effectively in fast-paced environments.

## EDUCATION

### ○ BS Electrical Engineering

Namal University

Nov 2022 - Jun 2026 | Mianwali, Pakistan

#### Courses

- Machine Learning
- Embedded Systems
- Digital Signal Processing (DSP)
- Digital Logic Design
- Database Engineering
- Computer Architecture
- Object Oriented Programming
- Electronic Devices and Circuits

## PROJECTS

### Embedded AI System for Real-Time Heart Sound Analysis

Final Year Project

#### Tasks

- Developed a CNN-based system for classifying normal and abnormal heart sounds using PCG signals.
- Deployed the model on a RISC-V board for real-time, low-power biomedical applications.

### Design of 5-Stage Pipelined RV32I Processor

Semester Project

#### Tasks

- Designed a 5-stage pipelined RV32I processor supporting all RISC-V base ISA instructions.
- Implemented IF, ID, EX, MEM, WB stages with hazard detection, forwarding unit, and branch control.

### Line Following Robot

Semester Project

#### Tasks

- Designed and developed a line following robot using Arduino Uno, utilizing IR sensors for path detection and motor control for autonomous navigation along a predefined track.

## PROFESSIONAL SKILLS

Verilog Python SQL C C++ MATLAB

Vivado ESP32 Arduino FPGA Proteus

GNU Radio Tensorflow Tkinter HFSS

ATMEGA32P Linux VSCode Google Collab

## ACHIEVEMENTS

### Fully Funded Scholarship

Namal University

Completed BS Electrical Engineering degree program at Namal University on fully funded scholarship.

## WORK EXPERIENCE

### Trainee Engineer

Centre for AI & Big Data (CAID), Namal

Feb 2026 - Jul 2026

#### Responsibility

- Gained hands-on experience using industry-standard tools for hardware-software co-design and AI system development.

## CERTIFICATES

### Participation certificate in NAMAL tech expo

Namal University

### Course Completion Certificate in Web Development

DigiSkills.pk

## LANGUAGES

### English

Full Professional Proficiency

### Urdu

Native or Bilingual Proficiency