



# Muqadas Bibi

## Electrical Engineer

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📍 Mianwali, Pakistan

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Confident and motivated final-year engineering student with strong communication skills and a proactive approach toward professional growth. Possesses good problem-solving abilities, adaptability, and a willingness to learn in dynamic environments. A reliable team player, eager to contribute effectively and build a successful career in the engineering field.

## EDUCATION

### BS Electrical Engineering

Namal Univeristy

Nov 2022 - Jun 2026 | Mianwali, Pakistan | 3.00

#### Courses

- Computer Arhitecture
- Machine Learning
- Renewable Energy Systems
- Embedded Systems

## WORK EXPERIENCE

### Grid Station Intern

National Transmission and Dispatch Company (NTDC)

Jul 2025 - Aug 2025 | Rawat, Pakistan

#### Accomplishments / Tasks

- Assisted in transmission system operations, monitoring, tasks within the control, P&I, and maintenance departments.

### Program Coordinator Assistant (Academic Support)

Namal University

Jun 2023 - Jun 2025 | Mianwali, Pakistan

#### Accomplishments / Tasks

- Assisted the Program Coordinator in day-to-day academic and administrative tasks
- Supported scheduling, coordination, and documentation of departmental activities

### Chemistry Instructor (FSc. Students)

Al-Asar College, Harnoli

Jun 2024 - Aug 2024 | Mianwali, Pakistan

#### Accomplishments / Tasks

- Taught Chemistry to FSc students, simplifying complex concepts for better understanding

## SKILLS

Verilog

Python

MATLAB

C/C++

SQL

Vivado

Tensorflow

HFSS

Arduino

ESP32

Linux

GNURadio

Proteus

FPGA

Colab

## 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.

### UART and SPI Communication Protocols on FPGA

Semester Project

#### Tasks

- Designed & Deployed both communication protocols on FPGA for reliable real-time data communication.

## CERTIFICATES

### AI & High Performance Computing for Self Employment Track

CAID Namal

### Indigenous and secure Digital system design for national progress

CAID Namal

## INTERESTS

Book Reading

Hiking

Tennis