



# Muhammad Mirza Nouman Baig

 Electronics Engineer

Fixing problems for Engineers through AI and research.

## Contact

### Phone

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## Education

2023:

**BE Electrical & Electronics Engg.**  
NEDUET

## Expertise

- Problem-solving strategies
- Process Flows
- Flexsim 2022
- AutoCad Electrical
- Siemens Starter Driver
- TIA Portal V17
- Instrumentation & Calibration
- Canva
- Adobe Illustrator
- Adobe Premier Pro

## Language

English

Urdu

## Experience

**Jan'24 - onwards:**

**Techtree**  
Robotics Instructor

My core responsibility at Techtree is to provide hands-on experience on Arduino Kits to students at multiple schools.

**Jan'24 - May'24:**

**ZUFESTM**  
Visiting Faculty Lecturer

My key role was to teach Discrete Structures courses to students of BS in the fields of Data Science, Cyber Security, and Management Technology. I have also taught Linear Algebra courses to the students of Electrical Engineering, Biomedical Engineering, and Cyber Security.

**Aug'23 - Nov'23:**

**TEL-HUBCO**  
Assistant Engineering Coordinator

My key responsibilities at the Material Handling Department include: To clear multiple Mechanical, Electrical, and I&C work permits as an operation expert on the field side. To assist with different troubleshooting by doing hands-on work with the Electrical and I&C teams. All the technical work done by the maintenance team is done according to HSE policy and engineering standards. Identify and provide optimum solutions to different real-time problems at the Material Handling Department as an operation and engineering expert.

**Aug'22 - Aug'23:**

**Naveena Exports**  
FYP Leader/ Internee

I was leading my Final year project on a Monforts Sanforizing Machine besides that I had done a 5 month internship there. During my internship, I acquired a significant amount of knowledge regarding the industry's Powerhouse and utilities.

**Apr'23 - Aug'23:**

**National Center of Artificial Intelligence**  
Internee

Besides my FYP, I joined NCAI as an internee for 4 months. The basic tasks were to integrate multiple sensors with Arduino or ESP32 through communication protocols: RS- 485, I2C, and Modbus communication. Furthermore, I was assigned to do testing of some machine learning models i.e.: Yolov5, and Yolov7 in real-time and compare their efficiency and accuracy. I have designed a 6-dof manipulator to integrate ROS with Arduino.

**Jan'21 - Aug'22:**

**Industronics Engineering**  
Trainee Engineer

I have done multiple on-site projects in different textile industries e.g.: Artistic Milliners, Gul Ahmed Textile, Alkaram, etc. Machine wiring, electrical panel wiring, and an electrical diagram of the complete machine were the tasks assigned to me. I have done all kinds of electrical hardware work for textile machines. I have gained experience of 1 and half years in this company.