Unsa Zahid

Electrical Engineer

Passionate and innovative Electrical Engineering student eager to learn and explore new technologies. Experienced in coordinating multidisciplinary tasks and driving successful project outcomes through collaboration and strategic planning I am experienced in designing and implementing complex projects and committed to continuous professional growth.

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EDUCATION

Bachelors in Electrical Engineering
Namal University Mianwali

11/2021 - Present   *3.31*

Courses

- Control System
- Wireless Communication
- Electric Machine
- Communication system
- IoT
- Power Engineering
- Digital Signal Processing
- Embedded Syatem

Pre Engineering
Daanish School Girls Rahim Yar Khan

09/2018 - 07/2020

PERSONAL PROJECTS

Quadratic Amplitude Modulation using GNU Radio (05/2024 - 06/224)

Speed control of DC motor using microcontroller ATmega328p (06/2023 - 07/2020)
- Knowledge taken from Embedded Systems and Electric Machines

Line Following Robot (02/2024 - 03/2024)
- Using Arduino Software

Library Management System using Idle Python (11/2022 - 01/2022)

WORK EXPERIENCE

IEEE Affiliate Member
Workplace/Company

08/2022 - 12/2023

Achievements/Tasks

- Collaborated with fellow IEEE members on research
- Participated in technical workshops

Fatima Fertilizer Internship
Workplace/Company

08/2024 - 09/2024

Achievements/Tasks

- Gained hands-on experience with industrial electrical systems
- Learned safety protocols and operational procedures in a large-scale fertilizer plant.

SKILLS

MATLAB Coding   Proteus   Python   MySQL
ETAP   Espressif IDF   Verilog   Content Writing
Simulink   GNU Radio   AutoCAD

IOT-BASED SMART NAMAL AGRITECH FARM AS FYP ACHIEVEMENTS

Technologies Used: LoRa, Arduino, ESP32, MQTT, Machine Learning, Web Application,Python
*7-in-1 sensors and AM2301 sensors used for real-time monitoring. Integrated **LoRa** communication for long-range, low-power data transmission. Designed a **web platform** for data visualization.*

Crop Recommendation System
Uses machine learning to predict the most suitable crops along with Weather forecasting

ORGANIZATIONS

Teaching Assistant Namal University (02/2023 - 04/2024)
Gained experience in academic coordination and technical mentoring.

IEEE Affiliate Member (10/2021 - 02/2022)
Participated in technical workshops and networking events.

CERTIFICATES

Certificate of Ballon Busting Category (06/2024)

Certificate of Namal Tech Expo (04/2025)

IEEE Certified Volunteer Administrator (09/2023)

LANGUAGES

English
Full Professional Proficiency

Urdu
Full Professional Proficiency

INTERESTS

Control System   Wireless communication   IoT
Digital Signal processing   Machine learning
Network Analysis   Power Electronics