



Aziz Ahmad

Electrical Engineering Undergraduate

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📍 Peshawar, Pakistan

Electrical Engineering undergraduate (Batch 2026) with a strong base in control systems, embedded systems, communication networks, and power engineering. Worked on academic projects using both hardware and simulation tools. Completed an internship in a manufacturing industry, gaining exposure to electrical equipment and maintenance practices. Currently working on a Final Year Project on a manually controlled pesticide spraying quadcopter, involving embedded systems and wireless communication. Seeking a Graduate Trainee Engineer opportunity to grow and apply engineering skills.

EDUCATION

BS Electrical Engineering

Namal University, Mianwali
Oct 2022 - Present | 3.36

Courses

- Control Systems
- Digital Image Processing
- Wireless Communication
- Computer Communication Networks
- Embedded Systems
- Internet of Things (IoT)
- Database Engineering
- Digital Signal Processing
- Digital Structure & Algorithms

WORK EXPERIENCE

Electrical Engineering Intern

Century Paper & Board Mills
Summer Internship - 2025
Aug 2025 - Sep 2025 | Lahore

Achievements/Tasks

- Observed operation and protection of **industrial motors, generators, and transformers** used in paper manufacturing processes
- Studied **motor nameplate data**, ratings, efficiency classes, and starting methods
- Gained exposure to **MCCs, contactors, DOL starter and Maintenance practices for machines**

Contact

Zahoor A. Saleem | zahoor-saleem@centurypaper.com.pk

Electrical Engineering Intern

ECO POWER Solar Services (PVT) LTD
Summer Internship - 2025
Jun 2025 - Jul 2025 | Islamabad

Accomplishments / Tasks

- Designed residential solar power system in MATLAB
- Observed physical installation of solar systems
- Gained familiarity with inverters, charge controllers, and system layout

ORGANIZATIONS

Namal Society for Social Impact

President
Oct 2025 - Present

SKILLS

- C/C++
- Python (Basic)
- Motor Starters
- Maintenance
- Graphic Designing
- Switchgear & Protection Basics
- ETAP
- Cisco Packet Tracer
- MATLAB/Simulink
- MySQL
- AutoCAD (Electrical)
- Proteus
- MS Office
- ESP32

ENGINEERING PROJECTS

Agriculture Pesticide Spraying Quadcopter

Ongoing

Developing an RC-controlled quadcopter for agricultural pesticide spraying, integrating Pixhawk based flight control, embedded systems, and wireless communication to achieve stable flight and effective field operation.

RFID-Based Smart Mess Management System

Lead

Built an ESP32-based RFID system for mess transactions with database integration and dashboard monitoring.

IoT Based Smart Home System

Lead

Designed a home automation network using IoT components in Cisco Packet Tracer

DC to DC Buck Converter

Lead

Designed and implemented a buck converter on proteus and hardware

CERTIFICATES & ACHIEVEMENTS

Runner-Up, Namal Tech Expo (Robotics Competition)

Namal University Mianwali

Spring School: Supercomputing & Parallel Programming

Center of AI and Big Data, Namal

Excel Skills for Business: Essentials

Macquaire University through Coursera

INTERESTS

- Robotics
- Gaming
- Designing
- SpaceTech
- Industrial Electrical Equipment
- Automation