

# SUBIR KUMAR

BALLIA, UTTAR PRADESH, 221711

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## Education

RAJKIYA ENGINEERING COLLEGE, SONBHADRA UP

Bachelor Of Technology in Electrical Engineering

Nov 2021- May 2025

7.93 CGPA

## Summary

Motivated Electrical Engineering student with a strong foundation in electrical circuits, power systems, and control systems. Skilled in basic electrical design, testing, and troubleshooting, with hands-on experience through academic projects and laboratory work. Eager to apply theoretical knowledge to real-world engineering challenges and grow as a professional engineer.

## Experiences

### Banaras Locomotive Works, Varanasi UP

Aug 2024-Sep 2024

Electrical Engineer Intern

SCADA , Main Receiving Substation & Loco Assembly Shop

- Gained hands-on exposure to SCADA systems used for real-time monitoring and control of electrical parameters in the Main Receiving Substation (MRS).
- Studied operation and protection of high-voltage substations, including transformers, circuit breakers, isolators, relays, and busbar arrangements.
- Monitored live data such as voltage, current, frequency, power factor, and energy consumption through SCADA interfaces.
- Assisted in understanding power distribution from incoming supply to various departments within BLW.
- Learned about protective relays, fault detection, and safety interlocking mechanisms used in substations.
- Observed preventive maintenance procedures and standard safety practices in high-voltage environments.

### Dhoot Transmission Limited

July 2025-Present

#### Graduate Engineer Trainee (Research and Development Department)

- Designed and developed automotive wire harness systems using Siemens Capital Harness Designer in accordance with Honda OEM standards.
- Developed splices, connectors, grounding strategies, and protection coverings (corrugated tubes, tapes, sleeves).
- Ensured proper routing and packaging considering vibration, heat zones, bend radius, and serviceability.
- Generated manufacturing deliverables including BOM, wire lists, splice charts, and harness drawings.
- Collaborated with manufacturing, quality, and testing teams to resolve electrical and assembly issues.
- Supported engineering change management (ECN) and design updates during prototype and production phases.

## Project

### Drone For Multipurpose Uses (Agriculture, Surveillance And Defence)

Developed a multipurpose electrical monitoring system for defence surveillance and agriculture, designed for high efficiency, reliability, and continuous operation. The system integrated signal conditioning circuits, regulated power supply, grounding, and protection mechanisms to ensure stable performance. Key design considerations included power efficiency, low losses, response time, accuracy, system reliability, and fault tolerance, enabling effective surveillance and field monitoring in demanding environments.

## Technical Skills

- Siemens Capital Harness Designer
- AutoCAD
- Electrical Circuit Analysis, Power Systems & Power Distribution
- Control Systems & Automation Basics
- Electrical Safety Standards & Earthing
- MS Word (technical documentation), MS Excel (data analysis, formulas, charts), MS PowerPoint (technical presentations), and MS Outlook (professional communication).

## Leadership/Extracurricular

- Member Of Electrical Engineering Forum (Rajkiya Engineering College ,Sonbhadra) Dec 2021-Jan 2025
- Class Representative Dec 2021-May 2025

