ROSHAN PADIT

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Motivated Electrical Engineering undergraduate seeking an Internship in core electrical and power engineering roles. Interested in power systems, electrical machines, solar PV systems, and industrial electrical operations, with hands-on exposure through internships, academic projects, and technical certifications.

EDUCATION

Bachelor of Technology (B.Tech) in Electrical Engineering **Aug 2023 – Sep 2027**
Government College of Engineering, Nagpur
CGPA: 6.67 Pre-Final Year Student

Higher Secondary Certificate **May 2020 - May 2022**
Aspire Junior College, Nagpur
Scored 75.33%

SKILLS

Core Skills: Power Systems, Electrical Machines, Transformers, Power Distribution, Basic Protection & Electrical Safety
Software & Tools: MATLAB, Simulink, AutoCAD Electrical (Basic), MS Excel, MS Office, LT Spice, C, C++, Python
Soft Skills: Leadership, Project Management, Team Collaboration, Strategic Communication, Critical Thinking

EXPERIENCE

Electrical Intern - Koradi Thermal Power Station (MAHAGENCO), Nagpur **Jan 2026 – March 2026**
• Completed industrial internship in Control & Instrumentation (C&I), working on plant monitoring systems, sensors, transmitters, and control panels.
• Collaborated with Electrical Maintenance Team (EMT) for maintenance and operation of transformers, switchgear, and electrical equipment.
• Gained hands-on exposure to thermal power plant operations, including boiler, turbine, and generator systems.
• Studied switchyard operations, protection systems, and roles of Unit/Station/Excitation transformers in power distribution.
• Learned industrial practices involving ESP, DM Plant, ETP, and adhered to safety protocols while applying theoretical concepts to real-world systems.

Electrical Intern – Adani Enterprises Ltd, Ambikapur **Dec 2024 – Jan 2025**
• Assisted senior engineers in electrical power operations involving transformers and power distribution systems.
• Supported basic project planning, activities, and site-level coordination in industrial electrical environments.
• Gained exposure to preventive maintenance practices and electrical safety standards used in large-scale power operations.

PROJECTS

Solar Power System Calculator
• Developed a Python-based tool to calculate solar system capacity (kW), daily & monthly energy generation (kWh).
• Estimated monthly cost savings (₹) and simple payback period based on consumer energy usage.

Fundamentals of Electric Circuits – Practical Project
• Completed a practical project focused on fundamental electrical circuits under the guidance of a senior engineer.
• Strengthened understanding of circuit laws, electrical components, and real-world applications.

CERTIFICATIONS

• Python for AI & Data Science – IBM (Coursera)
• Google GenAI Essentials – Google (Coursera)
• AWS Knowledge: Cloud Essentials – AWS

- Embedded Systems Basics – NIELIT
- Project Management Fundamentals – Google (Coursera)

ADDITIONAL INFORMATION

- Selected as Intern for Ministry of Statistics and Programme Implementation (MoSPI)
- Selected as Electrical Intern at KTPS (MAHAGENCO) through AICTE Internship Program.
- **Languages:** English (Fluent), Hindi (Fluent)
- **GITHUB:** https://github.com/roshanpadit