

## PRAVEEN VISHWAKARMA

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+91-8319598924 | praveenvishwakarma3110@gmail.com | linkedin.com/in/praveenvish | Jabalpur, Madhya Pradesh

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### SUMMARY

Engineer with strong knowledge of power systems, transmission lines, and substation operations. Skilled in project planning, site coordination, DPR preparation, and technical documentation. Proficient in handling electrical equipment, SCADA systems, and implementing safety-focused solutions, with a solid foundation in practical and analytical problem-solving.

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### EDUCATION

Jabalpur Engineering College (2021-2025)  
Bachelor of Technology in Electrical Engineering | CGPA: 7.18  
M.P. Board of Secondary Education (2020)  
Higher Secondary Certificate

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### EXPERIENCE

#### **Megha Engineering and Infrastructure Limited (July 2025 - Present)**

##### **Graduate Engineer Trainee**

- Executing 132 kV transmission line stringing activities including sagging, clipping, jointing, and jumpering, ensuring proper tension control Electrical and alignment as per approved profiles.
- Hands-on involvement in end-to-end site execution, foundation, tower erection, and stringing teams to achieve smooth project progress.
- Actively managing Right of Way (ROW) challenges, including clearances across agricultural land, roads, and utility crossings to avoid delays.
- Preparing and maintaining span-wise & location-wise documentation, including DPRs, daily progress reports, and material reconciliation for accurate project tracking.
- Monitoring and ensuring quality control at site, verifying tower alignment, conductor sag, hardware fittings, and installation practices.
- Implementing safety practices during stringing operations, including PPE compliance, proper earthing, and safe handling of tools and equipment.
- Supporting foundation activities with basic knowledge of excavation, reinforcement, and concreting processes.
- Conducting regular site inspections and coordination with supervisors and contractors to maintain timelines and execution standards.

#### **PowerGrid Corporation of India Ltd. (15/06/2022 - 07/07/2022)**

##### **Electrical Trainee**

- 220/440 kV substation switchyard maintenance.
- Handled the maintenance of major components such as CT, CB, ICT and Reactors in a 220/440 kV substation.
- Oversaw control room operations and performed CT & CVT maintenance and testing.

**National Power Training Institute, Shivpuri (26/12/2023 - 30/12/2023)**  
**Electrical Trainee**

- Gained hands-on experience in power system operation and safety protocol.
- Worked with advanced electrical equipment, understanding real-world applications of power distribution, fault analysis and SCADA system.

**Western Central Railway (28/05/2024 – 11/06/2024)**  
**Electrical Trainee**

- Operation and maintenance of power Cars, AC, and non-AC Coaches.
- Power generation & conversion.

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**PROJECTS**

**Automatic Pantograph Protection System for OHE**

- Designed and developed an automatic protection system to safeguard pantograph–OHE interaction during abnormal electrical and mechanical conditions.

- Implemented fault detection mechanisms for over-voltage, under-voltage, over-current, and abnormal OHE height variations.

- Integrated sensor-based monitoring system to continuously track electrical parameters and detect real-time faults.

conditions, preventing equipment damage.

- Programmed a control logic (Arduino-based) to automatically trigger pantograph lowering during fault

- Enhanced system safety by enabling quick fault isolation and response, reducing risk of overhead equipment failure.

- Worked on relay-based protection and control circuits for reliable operation of the system.

- Focused on improving railway electrification safety and operational reliability through automation.

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**SKILLS**

**Core Subject:** Circuit Theory | Electrical Machine | Power System | Signal and System | Control System | SCADA

**Skills:** MS Word | MS Office | PowerPoint | MS Excel | Canva | Blender

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**ACHIEVEMENTS AND EXTRA CURRICULAR**

- Won First Price in KHO- KHO Competition in College .
- Participated in Tata Imagination Challenge 2023.
- Won 3rd Prize in “Innovation Idea Competition” by Institute of Engineers (IoE) in college campus.
- Technical Society Member (Public Relations) – Managed event promotion, communication, and publicity for technical activities and workshops.