

SANJAY KUMAR VERMA

M.Tech Scholar(IIT Bhilai) | Electrical Engineer | EV & Power Electronics Enthusiast

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CAREER OBJECTIVE

Motivated Electrical Engineer currently pursuing M.Tech in Power System and Power Electronics at IIT Bhilai, seeking internship opportunities in the Electric Vehicle (EV), Power Electronics, Renewable Energy, and Motor Drive industries. Possessing strong industrial experience in electrical systems, commissioning, automation, VFD drives, substations, and large-scale infrastructure projects. Interested in EV charging systems, converters, motor drives, power quality improvement, and renewable energy integration.

EDUCATION

- M.Tech (Power System & Power Electronics) – Pursuing | 9.25 CGPA | Indian Institute of Technology (IIT) Bhilai**
- B.Tech (Hons.) – Electrical Engineering | 8.23 CGPA | Rajkiya Engineering College, Bijnor – AKTU**
- 12th (PCM) | 70.80% | CBSE Board**
- 10th (Science) | 95% | CBSE Board**

Technical Area in M.Tech: Power Electronics, Power Converters, Electric Vehicles (EV), Motor Drives, Power Quality, Renewable Energy Systems, BESS.

TECHNICAL SKILLS

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| <ul style="list-style-type: none">Power Electronics & ConvertersElectric Vehicle Charging SystemsMotor Drives & VFDKi-CAD (PCB Designing)MS Office (Word, Excel, PowerPoint)MATLAB/SimulinkPower System AnalysisPower Quality Analysis | <ul style="list-style-type: none">TBM and Infrastructure DevelopmentPower Distribution systemRenewable Energy SystemsPLC Basics & Industrial AutomationHT/LT Panels & Synchronizing PanelsSubstation Operation & MaintenanceElectrical Drawings & SLDTroubleshooting & Fault Analysis |
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PROFESSIONAL EXPERIENCE

Assistant Construction Manager – Electrical | Larsen & Toubro Limited (L&T Construction - HCI)

October 2022 – August 2025

- Worked as Shift In-charge for operation and maintenance of TBM in a 7.5 km twin tunnel project.
- Handled Siemens PLC-controlled TBM systems and Schneider VFD motor drives.
- Executed electrical commissioning, maintenance, troubleshooting, and automation support.
- Worked on 20 MVA substation installation, DG synchronization, and power distribution systems.
- Performed maintenance of conveyor systems, motors, industrial drives, and automation sensors.
- Managed electrical safety systems, manpower coordination, and technical documentation.
- Worked on assembly and commissioning of EOT cranes, gantry cranes, compressors, and industrial machinery.

PROFESSIONAL SKILLS

Analytical Thinking, Team Management, Communication Skills, Project Coordination, Problem Solving, Leadership, Adaptability.

ACADEMIC & INDUSTRIAL PROJECTS

- M.Tech Thesis: Design of Bidirectional EV Charger using G2V and V2G Technology for Electric Vehicles.
- Power Quality Analysis using MATLAB/Simulink Environment.
- TBM Assembly, Commissioning, and Electrical System Integration.
- 20 MVA Substation Installation and Commissioning.
- Industrial Motor Drive and VFD-Based Control Applications.

TRAINING & CERTIFICATIONS

- MATLAB/Simulink – CETPA Infotech, Lucknow
- Python Programming – IIT Kanpur
- Electrical Wiring & Panel Engineering – CTEA Mysore, L&T Construction
- Electrical Relay & Protection Tuning – CTEA Madh, L&T Construction
- Tunnel Engineers Certificate Program Level-1 – TEA Kanchipuram
- Renewable Energy Resources & Power Generation Capacity – REC Bijnor

ACHIEVEMENTS

- Member of team achieving highest tunneling progress (630.5 meters/month).
- District Topper in Class 10th – Awarded Laptop by UP Government.
- Silver Medalist in 4×400m Relay Race at Zonal Level.
- Head Coordinator at REC Bijnor.

AREAS OF INTEREST

Electric Vehicles (EV), Power Electronics, EV Chargers, Motor Drives, Renewable Energy Integration, Smart Grid & Power Quality.