NAVEEN BILLU

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PROFESSIONAL SUMMARY

Versatile Electrical Engineer with proven background in electrical site execution, design drafting, and commissioning. Eager to apply analytical, testing, and quality verification skills to drive operational and design excellence.

CORE COMPETENCIES & TECHNICAL SKILLS

Electrical Site & Commissioning: Switchgear testing, busbar testing, relay testing, transformer grounding, insulation resistance, CRM, safety protocols & EHS standards.

Design & Simulation Tools: AutoCAD Electrical, MATLAB, Simulink, ETABS, PSpice, Basic Arduino, Raspberry Pi, PCB fundamentals.

Testing & Calibration Equipment: Hi-Pot Kit, Megger (IR Tester), Contact Resistance Meter (CRM), Relay test kits, CT/PT test kits, Digital Multimeter.

Quality & Continuous Improvement: Verification & Validation (V&V), Root Cause Analysis (RCA), defect tracking, SOP documentation, Lean fundamentals.

WORK EXPERIENCE

Southern Electric Company — **Bangalore, India**
Electrical Site & Design Engineer (Project: NIE North Campus, Mysore) — *March 2026 – August 2026*

- Executed on-site electrical installations and updated AutoCAD schematics and single-line diagrams to client specifications.
- Maintained site engineering records, redline markups, and inspection reports to ensure specification compliance.

Voltech Engineers Pvt. Ltd. — **Chennai, India**
Testing & Commissioning Engineer (Trainee) — *May 2024 – July 2024*

- Executed Megger, Hi-Pot, CRM, and relay tests on switchgear panels and busbars.
- Calibrated and verified Multi-Function Meters (MFMs) under client test standards.
- Delivered validated test reports to Larsen & Toubro (L&T) for quality sign-off.

APSPDCL — **Tirupati, India**
Intern – Power Distribution & Substation Operations — *October 2022 – November 2022*

- Studied transformer neutral grounding and substation protection schemes to support fault identification and plant safety.

PROJECTS & PUBLICATIONS

• **Real-Time Embedded Multi-Sensor Fusion for Autonomous Navigation:** Engineered a multi-sensor perception prototype integrating LiDAR, radar, thermal, and vision sensors using YOLOv8 on Raspberry Pi, reducing distance error to 0.05 m (Under Review in BEEI).
• **Advanced AI-Based Multi-Sensor Fusion for Autonomous EVs (Review Paper):** Conducted an extensive review of AI sensor fusion techniques for vehicle perception; published in *Bulletin of Electrical Engineering and Informatics (BEEI)*.
• **AC Motor Speed Control with Overheat Protection:** Engineered a closed-loop AC motor speed control circuit featuring automated thermal-cutoff protection for safe industrial operation.

EDUCATION

Degree / Qualification	Institution	Year	Score
M.Tech in Power Electronics & Power Systems	KL University, Guntur	2026	9.0 CGPA
B.Tech in Electrical & Electronics Engineering	Sri Venkateswara College of Engineering, Tirupati	2024	7.79 CGPA
Intermediate (12th Grade)	NRI Junior College, Tirupati	2020	7.90 CGPA
S.S.C (10th Grade)	Sri Vidya Jyothi High School, Srikalahasthi	2018	8.30 GPA

CERTIFICATIONS & DETAILS

Certifications: Cloud Computing (NPTEL) | 21st Century Core Employability Skills (Wadhwani Foundation)
Languages: English (Fluent), Telugu (Native) | **Mobility:** Open to site, plant, and design roles across India