

PERMI SATHISH BABU

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PROFESSIONAL SUMMARY

Motivated Electrical & Electronics Engineer with practical experience in assembly operations, quality inspection, and production coordination. Committed to delivering precise, efficient results and continuously developing technical and professional capabilities in a challenging engineering environment.

WORK EXPERIENCE

Job Engineer Trainee

Jan 2025 – Jun 2025

Shree Abhirami Engineering Works, Power Transformer Manufacturer & service | Tamilnadu

Core & Winding Assembly:

- Participated in lamination stacking, core assembly, and coil winding operations for distribution transformers
- Assisted in insulation fitting and lead connections for LV/HV windings, ensuring assembly accuracy

Testing & Quality Control:

- Conducted routine electrical tests (turns ratio, insulation resistance, no-load/load losses) and documented results
- Verified transformer parameters against design specifications; flagged non-conformances for corrective action
- Maintained quality records and supported internal audits to ensure compliance with manufacturing standards

Production Planning:

- Coordinated daily production schedules, tracked component inventory, and communicated task priorities across assembly teams
- Managed task allocation under tight deadlines, contributing to on-time delivery of transformer orders

EDUCATION

B.Tech – Electrical & Electronics Engineering

PVKK Institute of Technology, Anantapur

2021 – 2025

CGPA: 8.0 / 10

Intermediate – MPC

Sri Venkateshwara Junior College, Rayadurg

2021

CGPA: 6.3 / 10

Secondary School Certificate (SSC)

Kallimatam Municipal High School, Rayadurg

2019

CGPA: 9.0 / 10

TECHNICAL SKILLS

Transformer Domain:

- Core & winding assembly, insulation systems
- LV/HV testing: turns ratio, IR, no-load/load loss
- Quality control, non-conformance reporting
- Production planning & shop floor coordination

Software & Tools:

- MATLAB/Simulink (power electronics simulation)
- Zoho Books (ERP), Linux, Windows

Engineering Knowledge:

- Power systems & distribution
- Renewable energy & EV power electronics
- DC-DC converter design & state-space modeling
- Circuit design & analysis

Soft Skills:

- Deadline-driven task management
- Attention to detail & quality focus
- Multilingual: English, Telugu, Hindi, Tamil, Kannada

ACADEMIC PROJECTS

Major Project: Single Inductor Multi-Port Power Converter for EV Applications

Team Leader

- Designed a non-isolated multi-port DC-DC converter integrating solar PV and battery inputs for EVs
- Simulated and validated converter performance in MATLAB/Simulink; verified with a hardware prototype
- Applied state-space modeling and dynamic control design to achieve optimized stability and efficiency

ACHIVEMENTS

- Assisted in the **complete servicing of 50 MVA and 21.6 MVA power transformers** as an Assistant Engineer.
- Involved in major activities including **transformer opening, dismantling, internal inspection, and reassembly.**
- Supported the team during **maintenance, testing, and quality checks.**
- Ensured proper completion of the process from **initial inspection to final dispatch.**