

AAKARAM NAGARAJU

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TECHNICAL SKILLS

Core: Electrical wiring installation (domestic and industrial)

Electrical machines (motors, transformers, generators)

Control panel wiring and maintenance

Circuit diagram reading and interpretation

Preventive and breakdown maintenance

Testing and repairing electrical equipment

Languages: Verilog, C, Python

Developer Tools: Xilinx Vivado, MATLAB, LT spice, compiler, Interpreters

TECHNICAL EXPERIENCE

Trainee-ITI Electrical Engineering

Aug. 2020 – July. 2022

Indur Industrial Training Institute

Nizamabad

- Installed and maintained single-phase and three-phase wiring systems in residential and industrial settings.
- Assembled, tested, and repaired electrical panels and control circuits.
- Read and interpreted electrical schematics and wiring diagrams for system layout and troubleshooting.
- Operated electrical measuring instruments such as multimeters, meggers, and clamp meters.
- Carried out preventive and breakdown maintenance of electrical machines like motors, transformers, and generators.

PROJECTS

RADIX 4 Multiplicatin using Booth Algorithm | *Verilog, Vivado*

May 2025

- * Implemented a Radix-8 Booth multiplier in Verilog to optimize signed binary multiplication efficiency and reduce partial products.
- * Designed, simulated, and verified the multiplier using testbenches in Vivado, ensuring correctness across edge cases..

Automatic Smart Street Light

May 2024

- * Designed and implemented a smart street light system using sensors (LDR, motion sensor) to automatically control lighting based on ambient light and movement, reducing energy consumption.
- * Integrated microcontroller (e.g., for real-time automation and energy efficiency, with potential for solar power and remote monitoring features.

EDUCATION

Gurunanak Institutions Technical Campus

Hyderabad, India

B.E in Electronics and communications Engineering

2022 - 2026

Indur Industrial Training Institute

Nizamabad

Elecrtrician (NSQF)

2020 - 2022

Sri Kakatiya jr collage

Nizamabad

MPC

2018 - 2020