

# RITIK SINGH

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## CAREER OBJECTIVE

Entry-level **Electrical Engineer** (Power Plant / Substation O&M) with hands-on exposure to HT/LT systems, generators, transformers, switchgear, and electrical safety. Seeking a site-based role to contribute to reliable power operations and preventive maintenance.

## EDUCATION

**B.E. – Electrical Engineering, Dr. S & S. S. Gandhi**

Government Engineering College, Surat | 2022 – 2026 | CGPA: 7.2

## INTERNSHIP EXPERIENCE

- **Electrical Engineering Intern - 220kv Gas Power Plant, Utran** (Jan 2026 - March 2026 | 3 Months)
  - Assisted in operation & maintenance of gas-based power generation systems
  - Observed generators, excitation systems, AVR, and auxiliary power systems
  - Worked around HT/LT panels, transformers, breakers (VCB/ACB)
  - Gained exposure to electrical protection (overcurrent, earth fault)
  - Followed electrical safety procedures & LOTO practices
  - Supported preventive maintenance and fault observation activities

## ADDITIONAL INDUSTRIAL TRAINING

- **Electrical Engineering Intern - SUMUL Dairy (AMUL Group)** (15 Days | 2025)
  - Exposure to industrial electrical distribution systems
  - Basic understanding of motors, MCC panels, and plant utilities
  - Learned coordination between electrical & mechanical maintenance teams

## TECHNICAL SKILLS

- **Core Electrical**
  - HT/LT systems
  - Transformers (Power & Distribution)
  - Switchgear (ACB, VCB – basics)
  - Earthing & grounding
  - Electrical drawings (SLD – basic understanding)
- **Power & Automation**
  - PLC programming (basic)
  - Inverter design
  - IoT-based monitoring (voltage & current)
- **Tools**
  - Multimeter
  - Megger (basic awareness)

## PROJECTS

- **Power Quality Monitoring System using IoT** - Designed a real-time system to monitor voltage & current parameters, improved visibility of electrical performance using sensors & microcontroller
- **12V to 220V Inverter**; Designed and tested a DC-to-AC inverter, Understood switching, losses, and output regulation