



Deepesh Solanki
Electrical Engineering
Sardar Vallabhbhai National Institute of
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B. Tech.
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Examination	University	Institute	Year	CPI / %
Graduation	SVNIT, Surat	NIT Surat	2025	7.36
Intermediate	CBSE	Alchemy School, Surat	2021	88%
Matriculation	CBSE	RMG Maheshwari School, Surat	2019	82%

INDUSTRIAL EXPERIENCE

- **Graduate Engineer Trainee – Electrical Design | Power Systems | ETAP | MATLAB**
Azure Power | 600 MW Solar Power Plant (Oct'25-Present)
 - Analysed solar plant electrical performance data (SCADA) to evaluate system efficiency, fault trends, and operational behaviour
 - Interpreted inverter and DC system performance to support electrical system understanding and troubleshooting
 - Assisted in electrical fault analysis and root cause identification using system-level data
 - Worked with electrical schematics, layouts, and system configurations for fault isolation and diagnostics
 - Ensured compliance with electrical safety standards and operational procedures
- **Transformer Exposure (400kV 150 MVA Unit – Repair & Testing)**
 - Gained exposure to **high-voltage transformer design principles**, insulation systems, and winding configurations
 - Interpreted results from diagnostic tests (SFRA, IR, Winding Resistance, Ratio Test) for performance validation
 - Understood test standards and technical specifications used in transformer evaluation
 - Coordinated with engineering teams to ensure compliance with testing procedures and quality benchmarks
- **Graduate Engineer Trainee (Intern)**
Sintex by Welspun (Jan'25-July'25)
 - Supported substation commissioning: cable layout, switchgear/panel integration, transformer earthing
 - Participated in energy audits to identify system inefficiencies
 - Maintained SAP-based maintenance and reporting logs
- **Engineering Intern**
Space Applications Centre (ISRO), Ahmedabad (Jun'23-Aug'23)
 - Assisted in development of PID-controlled thermal plate for payload testing
 - Supported PID tuning and controller configuration (ASCON)
 - Gained exposure to 66/11 kV GIS, 11/0.4 kV systems, transformer maintenance, and DG operation

TECHNICAL SKILLS

- **Electrical Engineering Fundamentals:** Circuit Theory, Power Systems, Electromagnetism, Electrical Machines
- **Design & Analysis Tools:** MATLAB, ETAP (Basic), MS Excel
- **Electrical System Knowledge:** Transformers (400/33 kV), Substations, HT/LT Systems
- **Software & Tools:** MS Office (Excel, Word, Outlook), SAP(Basic)
- **Others:** SCADA Monitoring & Data Analysis

COMMUNICATION & TEAMWORK

- Strong analytical and problem-solving ability
- Effective communication in technical and team environments
- Ability to work collaboratively with cross-functional teams
- Detail-oriented with structured approach to tasks
- Adaptability and eagerness to learn new tools and technologies

ACADEMIC PROJECTS

- **Battery State-of-Charge (SOC) and State-of-Health (SOH) Estimation** (Jul'25)
 - Developed MATLAB/Simulink models to study lithium-ion battery performance.
 - Implemented SOC estimation techniques including Coulomb Counting and Kalman filter-based methods.
 - Studied SOH variation through capacity fade analysis and charge–discharge simulations.
- **Thermal Plate for Load Testing (ISRO Internship Project)**
 - Assisted in development of a PID-controlled thermal plate for component testing.
 - Integrated heaters, SSRs, and control wiring under supervision.
 - Learned basic thermal safety and testing procedures.