



RISHI NARAYANAN

ELECTRICAL ENGINEER

PERSONAL PROFILE

Detail-oriented Electrical Engineer experienced in **capacitor bank systems, harmonic mitigation, and industrial power factor correction solutions**. Proficient in understanding technical specifications, analysing **site requirements, and delivering customer-focused service**. Passionate about **power systems, equipment testing, and applying engineering principles** to real-world problems.

AREAS OF EXPERTISE

Technical Skills

- Power Quality: Capacitor Banks (LT/HT), APFC/RTPFC, Harmonic Filters, SVG, Hybrid Systems
- Installation, Testing & Commissioning
- Harmonic Study, Energy Audit, Load Analysis
- Electrical Troubleshooting & Diagnostics
- Tendering & Estimation (Technical + Commercial)
- Type Testing, Routine Testing, Protocol Development
- Quality Control & Process Improvement
- Electrical Standards: IS/IEC compliance

Software & Tools

- Microsoft Excel, Word, PowerPoint
- CRM Tools
- AutoCAD - Electrical
- Basic analysis tools - Power Analyzer Tool
- Python, Web Dev Tools

Managerial & Soft Skills

- Client Communication & Technical Discussion
- Vendor & Contractor Coordination
- Report Preparation & Documentation
- Project Follow-up & Execution
- Time Management & On-site Decision Making
- Customer Relationship Management
- Sales Prospecting & Lead Conversion
- Team Collaboration and Support

CONTACT INFO

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WORK EXPERIENCE

COSPOWER ENGINEERING LTD.

Naigaon, Mumbai

Graduate Engineer Trainee | June -25 - Dec - 25

- Prepared **competitive and technically commercial offers** for customer enquiries using **MS Excel**, applying core electrical engineering knowledge and panel design principles for **LT/HT capacitors, APFC/RTPFC panels, and harmonic filters**.
- Led the successful **installation and commissioning** of a **25 MVAR HT capacitor bank (33 kV, 126 units, 2500 A)** with star-delta configuration, ensuring system stability and enhanced power factor at the client's **transformer manufacturing company**.
- Worked on projects which required the supply of HT/LT APFC Panel for **power factor correction for notable companies like Sterling Wilson LTD., Oberoi Realty, HVPNL,, etc.**

ACADEMIC PROJECTS

AUTOMATED AGRICULTURAL ROBOT SYSTEM

Final Year Project

- Designed a **multifunctional robot** with sprinkler irrigation, autonomous grass cutting, and environmental monitoring using **Onshape (rocker-bogie mechanism)**.
- Integrated **ESP32 with Bluetooth**, motor drivers, and sensors (temperature, humidity, soil moisture) for real-time data collection.
- Developed a **cloud dashboard** and hybrid **ARIMA + Random Forest** model for predictive environmental analysis.
- Won Third Price in Institute Level Project Competition

EDUCATION

ST. FRANCIS INSTITUTE OF TECHNOLOGY BORIVALI, MUMBAI

Bachelor of Engineering | 2021-2025

BE in Electrical Engineering

CGPA: 8

Academic Strengths:- Power Systems, Network Analysis, Electrical Machines, Embedded Systems, Control Systems, Machine Learning

INTERNSHIP & CERTIFICATE

Internship: MSETCL

- Engaged in **power system analysis, switchgear protection, SCADA, and substation operations** at the **220/100-22 kV Vasai Substation**.

Industrial Visit: Adani Power Plant

- Learned about **thermal power generation, turbine operations, and electrical fault management**.

Certifications:

- MATLAB Onramp & Simulink** (MathWorks)
- Unlocking AI Workflow for Engineered Systems** (MathWorks Webinar)
- Connecting to Low-Cost Hardware** (MathWorks Webinar)