

# ROHAN JOSHI



## Senior Electrical Design Engineer

<b>Address</b>	E-402,Aditya Heights,Waghodia-Dabhoi Ring Road 390025, Vadodara India	<b>Phone</b>	09099027754
<b>Email</b>	rohan23joshi@gmail.com	<b>Date / Place of birth</b>	23-Sep-1990 / Vadodara
<b>Nationality</b>	Indian	<b>Links</b>	<a href="#">Web Resume</a> , <a href="#">LinkedIn</a>

## 01 PROFILE

I am a Senior Electrical Design Engineer, Working in green field and Brownfield projects for Power Plant, Oil and Gas, and the FMCG industry. Having experience in Proposals, Pre-FEED, FEED, and EPC Detail Engineering design. My key responsibilities are Basic and detailed engineering, 3D Modeling, 3D Model review, Site support, material take-off/bill of material, input gathering for revamping projects, Drawing checker, coordination with other disciplines, mentoring juniors, automation for software, engineering Calculations, and tool development using VBA programming.

### **Key Engineering Skills**

Load list finalization, single line/one line diagram designing, Cable sizing Calculation, Panel Sizing (MCC), Equipment Sizing, Plot Plan Finalization for Optimum Design, Lighting Calculation, Earthing/Grounding Calculation, and Preparation of Material Schedules for procurement (MTO), Vendor drawing review for the electrical interface, Knowledge of Standards like IEC, IEEE, NEMA, NFPA, NEC, Man-hour Estimation for Proposal Projects.

### **Key Design Skills**

Planning and Preparation of 3D models of various Electrical systems in the 3D environment (AVEVA PDMS, AVEVA E3D, Intergraph Smart Plant 3D, Autodesk Revit, PLADS), Raceway design and Sizing Calculation following Applicable Codes and Standards (IEC, IEEE, NEMA, NFPA, NEC, etc.). Support / Prepare / Train Others for Electrical Drawings Preparation like General Notes and Installation Details, Electrical Cable Tray Layout, Electrical Route point Layout, Electrical Duct-bank/Trench Layout, Embedded Conduit Layout, Indoor Lighting Layout, Roadway Lighting Layout, Outdoor Lighting Layout, Earthing/Grounding Layout, Electrical installation Layout, Panel General arrangement Layout, Substation/Electrical Building Equipment Arrangement Layout, Transformer yard layout, Cable Routing, and Scheduling, Electrical Drawing Checking, Organizing & Attending 3D model Review with the client as well as interdisciplinary to ensure the clash-free design and smooth construction at the site. also, deputed to site and overseas offices to support engineering activities.

### **Key Management Skill**

Coordination with team members, and departments to ensure on-schedule completion of various activities for Design, Engineering, Estimation & Proposals. Overall Supervision and planning for engineering and design Activities. Resource Planning, and Supporting Recruitment activities to meet organizational requirements. Knowledge sharing Meet so everybody in a team can share his/her unique knowledge or way of working (Smart & fast working style).

## 02 EMPLOYMENT HISTORY

---

01/2022 — Present

### Electrical Designer Level II at Worley India PVT. LTD.

Vadodara

#### Projects:

1. Lubrizol India CPVC Project
2. US LTDP 2 2.0 Define
3. MGS III: Master Gas System Expansion PH-III
4. Revamp RUWAIS CAPACITY ENHANCEMENT OF NGL TRAINS 1, 2, 3 & 4
5. Heartwell: Renewable Fuels Plant
6. MERAM: MAXIMUM ETHAN RECOVERY

#### Responsibilities :

- Supporting the Digital team for new tool development and department digital saving awareness.
- Cable tray, Conduit, and cable trench sizing Calculation based on Applicable Codes And Standards for a Basic and detailed scope of the project.
- Lighting design Calculation using Dialux Evo.
- Grounding Calculation and grounding Design.
- Cable Sizing for LV and HT cables.
- Involved in the Recruitment process as an interviewer to recruit the best talent in the market to achieve organizational goals.
- Training Juniors in design calculations and engineering software.
- Substation engineering and substation design.
- Supervise 3D modeling activity and 2D layout preparation to ensure timely delivery of deliverables.
- Checking of Lighting Drawings, Cable Tray Drawings, Small Power Layouts, Single line diagrams, Schematic diagrams, Ductbank Layouts, Above Ground Layouts, General arrangement drawings, and Substation layouts.
- 3D model reviews cycles 30% , 60% & 90% with client as well as internal.
- 3D model coordinator to ensure clash-free design throughout the project cycle.
- Interacting with clients and vendors to resolve engineering challenges raised during the design phase.
- Resource planning and project hour tracking to maintain productivity.
- Interdisciplinary squad checks to check interfaces with electrical discipline were as per the requirement.
- coordinating with the software admin team to automate the drawing production and add custom properties to the model database to generate project deliverables efficiently to save time.
- Developed software/Macros using VBA and VB.Net to reduce manual efforts and eliminate repetitive tasks to optimize hours for engineering documents and ensure Quality and consistency along all deliverables.
- On-the-job training to team members for SP3D and Smart Sketch to speed up 3D modeling activity and drawing generation.
- Involved in department upskill and reskill program to train electrical taskforce on various software like SP3D, Aveva E3D, Aveva PDMS, Smart Sketch, Dialux Evo, and Navisworks Manage.

07/2019 — 01/2022

Vadodara

## **Senior Electrical Engineer at Larsen And Toubro Technology Services Limited**

### **Projects:**

1. **Venture Global Calcasieu Pass LLC**
2. **Exxon Mobil Refineries**
3. **Saipem**

### **Responsibilities :**

- Cable tray, Conduit, and cable trench sizing Calculation based on Applicable Codes And Standards for a Basic and detailed scope of the project.
- Lighting design Calculation using Dialux Evo.
- Cable Sizing for LV and HT cables.
- Man-Houre estimation for project bidding.
- Involved in the Recruitment process as an interviewer to recruit the best talent in the market to help the organization.
- Training Juniors in design calculations and engineering software.
- Substation engineering and substation design.
- Supervise 3D modeling activity and 2D layout preparation to ensure timely delivery of deliverables.
- Prepared Lighting layouts/drawings, Cable Tray layouts/drawings, Small Power layouts/drawings, Single line diagrams, Schematic diagrams, Ductbank layouts/drawings, Above Ground layouts/drawings, General arrangement drawings, and Substation layouts/drawings.
- Drawing checking for error-free design.
- 3D model reviews cycles 30% , 60% & 90% with client as well as internal.
- 3D model coordinator to ensure clash-free design throughout the project cycle.
- Resource planning and project hour tracking to maintain project productivity.
- Interdisciplinary squad checks to check interfaces with electrical were as per the requirement.
- Coordinating and working with the software admin team to automate the drawing production and add custom properties to the model database to generate project deliverables efficiently to save time.
- Developed software/Macros using VBA and VB.Net to reduce manual efforts and eliminate repetitive tasks to optimize hours for engineering documents and ensure Quality and consistency along all deliverables.
- On-the-job training to team members for SP3D and Smart Sketch to speed up 3D modeling activity and drawing generation.

06/2017 — 07/2019

## **Engineer - Electrical Component at General Electric**

*Noida*

**Project: Kemer koy & Yenikoy project**

### **Responsibilities:**

- Deputed to the site for input gathering and coordination. (Turkey)

- This is the revamp project as both plants are 35-year-old and the challenge is to gather inputs/Drawings/Schematics/Cable data/cable routes for an old generator and turbine installation Secondly prepare the demolition scope document to demolish the existing facility to accommodate new JBs/Equipment/structure/Trays for new generator and turbine.
- Also, install a new synchronization panel and a protection panel as per the new generator technology.
- Also traced paths for cables and existing panels located at the site and prepared demolition reports for new panels and cable trays.
- Prepared new room arrangement and cable routing drawings for new cables and panels.

**Project: Hinkley Point C Project**

**Responsibilities:**

- 3D modeling of cable trays using Aveva E3D and cable routing.
- Electrical Equipment modeling and designing for various units in TG Hall.
- Extraction and annotation of 2D layouts from the model using Aveva Draw/Draft.
- Checking of Main cableway axis layouts.
- Interfacing with other disciplines & clients to ensure the interference-free design and on-time delivery of models/layouts.
- I am aligning the work progress to the Lead Engineer in Boulogne, France office.

**Project: Khanyisa Proposal Engineering (2 x 153 MW Coal Fired)**

**Responsibilities:**

- Deputed to the Paris Office for Project Work.
- 3D modeling of cable trays using Aveva PDMS and cable routing.
- Sizing of underground conduits and Designing underground conduit network for cabling. (Duct bank)
- Electrical Equipment modeling and designing for various units in TG Hall.
- Checking of Main cableway axis feasibility.
- MTO preparation to estimate project cost for bidding.

**Project: Mae Moh (2,400-megawatt (MW) Coal-Fired Power Station)**

**Responsibilities:**

- Cable tray node point drawing and device scheduling in **Athena**.
- Cable routing in Athena (in-house cabling tool).
- Device scheduling for the main plant and BOP area.

**Project: Yanbu Power And Desalination Plant)**

**Responsibilities:**

- As-built drawing preparation. (5000 drawings)
- Developed Autocad and Batch Macro to accomplish Repetitive drawing changes.

**Project: Ghatampur Thermal Power Project (3 x 660 MW Cole Fired)**

**Responsibilities:**

- Transformer yard layout.
- Cable Tray planning and modeling for the Power Block Area.
- Equipment modeling for Power Block Area.
- Busduct routing.

**Project: HÖGBYTORP (FGD Plant)**

**Responsibilities:**

- Cable Tray planning and modeling for FGD plant.
- Equipment modeling FGD plant.
- Interface meetings with clients and vendors.
- Model review meetings with inter-discipline as well as the Poland team.

**Project: Malarenergi 7 (FGD Plant)**

**Responsibilities:**

- Cable Tray planning and modeling for FGD plant.
- Equipment modeling FGD plant.
- Interface meetings with clients and vendors.
- Model review meetings with inter-discipline as well as the Poland team.

01/2017 — 07/2017

**Drafter-Electrical at Fluor India**

*Gurgaon*

**Project: Tengizchevroil's Future Growth Project**

**Responsibilities:**

- Cable Tray Sizing, Tray Fill Calculations.
- Cable tray modeling and cable tray drawing extraction using the smart sketch.
- Review cable tray drawings.

10/2012 — 01/2017

**Jr. Engineer Electrical at L&T Sargent & Lundy India**

*Vadodara*

**Project: Project: 2 X 150 MW PACO COAL FIRED POWER PLANT, Panama, Central America**

**Responsibilities:**

- Initially worked on a Plot plan for the optimum placement of equipment to reduce the overall cost of the project.
- Also involved in raceway sizing calculation and raceway planning.
- Prepared Electrical Standard Installation Drawing for Cable raceway and Equipment arrangement.
- Prepared Electrical GA Drawings and 3D Models of Electrical equipment for the BOP area as well as the power block area.
- Develop aboveground, underground Cable raceway layout drawing for Outdoor area, various BOP areas, Transformer yard, Turbine Building, and Main control building.
- Prepared 3D Model for above-grade cable tray/conduits and below-grade duct bank/ conduits in EDWB/PLADES & Microstation V8i SS3.
- Vendor drawing review of Electrical GA drawing, Transformers, HV & LV switchgear, and Generator for physical aspects.
- Review of Interdisciplinary drawings – Civil structure drawing (interface with electrical discipline), Civil foundation drawings (interface with electrical discipline), etc.
- Also done space allocation for all electrical items for smooth construction at the site.
- Estimated Cable length for cable sizing calculation.
- Cable routing for Cable schedule using CMS/PLADES.
- Prepared Earthing & Lightning Layout for Indoor as well as outdoor areas.

- Compiled BOQ for raceway, IPBD, NSPBD, and SPBD.

### 03 EDUCATION

Jun 2009 — Jul 2012

**Gujarat Technological University**

*Vadodara*

Diploma

Jun 2008 — Jul 2012

**The Maharaja Sayajirao University Baroda**

*Vadodara*

B.Sc. Physics

### 04 SKILLS

AVEVA PDMS



Navisworks Manage



AVEVA E3D



Smart Plant Review



Intergraph SP3D



Visual Basic



AutoCAD



DIALUX Evo



Microstation



Revit MEP



MS Office



### 05 LANGUAGES

English



Gujarati



Hindi

