Curriculum Vitae



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OBJECTIVE:-

To obtain a position as Electrical Designer that will enable me to utilize my strong professional skills, educational background, and capability to work well with group.

PROFILE :-

- Worked on PDS, PDMS, SP3D, E3D Chalmlite, MicroStation, and AutoCAD with Windows-XP environment for drafting of various drawings in Electrical Engineering.

- Good communication skills in both written and spoken. Update technical documentation, easy-going personality and ability to perform under pressure.

TOTAL EXPERIENCE :- **18+** years exp. in Electrical Designing & Drafting field. (Onshore & Offshore)

CAREER ACHIEVEMENTS :-

- Professional Experience in Electrical detailed design for Oil and Gas (Onshore/ Offshore), Oil Sands, Petro-chemicals, Engineering Projects.
- Establishing good working relationships and communication with area leads, department managers, clients and other team members for appropriate coordination, and ensuring the compatibility of design.
- Taking responsibilities of 3D modeling for Electrical & Instrument equipment's (MCC/PCC, Transformers, JB's, Receptacles), lighting fixtures, electrical envelopes, Power & Control cable trays design & routing with support using **SP3D, PDS, PDMS** of Onshore / Offshore projects.
- Participated & successfully completed 3D model in SP3D, PDS & PDMS for 30%, 60% & 90% model reviews for Electrical Substations, Switchyards, Control room, Main & Secondary Pipe racks design, power line, 5KV & 600V underground duct banks/ Trenches/ conduits, Tank farms, Loading Areas, fiber optic cables route, High Mast lighting.
- 2D Drawing extractions and editing in **SP3D Smart sketch** / **PDS Drawing Manager** and **PDMS DRAFT**.
- Offshore platform Cable tray, Lighting Design & Calculation, Grounding Design, Modeling & Layouts.

- Electrical Substation & Switchyard cable tray, Cable cellar room tray & Lighting design.
- Electrical Substation Equipment arrangement and Lighting Design as per Design Criteria.
- Electrical / EHT & I&C cable routing for Substation / Control room / HVAC room / Cable cellar / Switchyard / Pump house, underground and above ground field route.
- Prepared Independently Electrical Layouts & section / detailing for Cable Trays / Duct bank / conduits, Grounding, Indoor and outdoor lighting, MCT, Electrical Equipment & Substation Equipment Layout.
- Participated to Prepare Single Line Diagrams for PCC, MCC, DB's & Sub-stations, Inter-connection Wiring diagrams, Control Schematic Wiring Diagrams, Fire alarm system.
- Prepared/Checked Cable & Panel Schedules for Power/Control/Instruments/ Lighting.
- Lighting Calculations and implementing in the model as well as 2D Layouts.
- As-Built drawings finalization for Electrical discipline.
- Reviewed engineering designs, drawings, Vendor documents and other related engineering documents to identify potential problems ahead of time and proactively implement solutions
- Customization of Smart plant 3D report to extract underground duct bank/trench coordinates, catalogue customization as per final vendor data. Coordination with IT department to resolve SP3D user's related issues.
  Attending web meetings & coordination with SP3D global experts for projectization of various for electrical deliverables as per project requirement.
  • Worked as core member of electrical team on project. Job involves attending Interdisciplinary & client's meetings for underground design development, participation in weekly, client's 3D model reviews.
  Mentor & manage new diploma engineer trainee assigned for underground activities. Worked as supervisor for SEZ area underground design development.
  • Performing various calculations as required for design development. Handle & completed clash free 3D modelling for underground cable routing for DTA areas.
  • Checking various deliverables cable tray, above ground power & grounding layouts as per company's checklist & work instructions. Responsible to Issue error free deliverables
  • 3D modelling for Smelter, Annealing, Chemical heat treatment & rolling area underground trench / duct banks, cable tray, electrical equipment's such as switchgear, MCC, Lighting etc. in PDS raceway & equipment modules.
  • Performing engineering calculations for cable tray & conduit fill, underground trench & duct bank sizing etc. Lighting calculation in DIALUX.
  • Preparation of Electrical layouts such as cable tray, underground, above ground power etc.

EXPERIENCE & ACCOMPLISHMENTS :-

TICB ENGG. INDIA PVT LTD.

Working as an **'SR. ELECTRICAL DESIGNER'** since Apr 2021 to till (in Mumbai**, India)**

Project Detail :-

- ✓ **KINGSP**

  - ✓ Design and Model Equipment's, Lighting Fixture.
  - ✓ Cable Tray with PDS Modelling.
  - ✓ Electrical Lighting Layout.
  - ✓ Electrical Tray Layout, Support Layout.
  - ✓ Electrical Cable routing in Tray with PDS Modelling.
  - ✓ Cable Schedule Update As per Requirement.
  - ✓ Working on SPEL For Cable List, Equipment List, Load List etc.

M/s Toyo Engg. India PVT Ltd.

Worked as an **'SR. ELECTRICAL DESIGNER'** since Dec 2020 to Mar 2021 (in Mumbai**, India)**

Project Detail :-

- ✓ **PETROBRAS FPSO ALMIRANTE BARROSO MV32**

- ✓ Design and Model Equipment's, Lighting Fixture.
- ✓ Cable Tray with E3D Modelling.
- ✓ Electrical Lighting Layout.
- ✓ Electrical Tray Layout, Support Layout.
- ✓ Electrical Cable routing in Tray with E3D Modelling.

M/s Air Product Engg.

Worked as an **"Sr. ELECTRICAL DESIGNER'** since June 2020 To Nov 2020 (in **Pune, India)**

Project Detail :-

- ✓ **(UZBEKISTAN GAS TO LIQUID PROJECT) (UZGTL)**

- ✓ Design and Model Equipment's, Lighting Fixture with SP3D, 2011 R.
- ✓ Electrical Lighting Layout.
- ✓ Single Line Diagram.
- ✓ Heat Tracing Layout.

M/s FORTUNE ENERGY SERVICE ENGG.

Worked as an **"Sr. E&I DESIGNER"** since Dec 2019 to Mar 2020 (in **Abu Dhabi**, UAE).

Project Detail :-

- ✓ **(ADNOC GAS PROCESSING , Habshan, Maqtaa, Ruwais) REPLACEMENT OF OBSOLETE SALES GAS METERING SYSTEMS)**

- ✓ Lighting Layout.
- ✓ Electrical Earthing Layout.
- ✓ Interconnection Diagram (PDB, UPS, LSPDB)
- ✓ Cable Routing Layout.
- ✓ Working on SPEL FOR Single Line Diagram.
- ✓ Cable Tag, Cable Size, From Equipment Tag, To Equipment Tag, Cable Length, Cable Specification etc.

M/s EVERSENDAI OFFSHORE

Worked as an **"Sr. E&I DESIGNER"** since July 2019 to Nov 2019 (in **Dubai** UAE).

Project Detail :-

- ✓ **KIPIC (Al-Zour Refinery Project, Kuwait)**

- ✓ Lighting Layout.
- ✓ Cabletray Layout.
- ✓ Electrical Earthing Layout.
- ✓ MCT Layout.

M/s JACOBS ENGINEERING INDIA. PVT. LTD

Worked as an **"Sr. ELECTRICAL DESIGNER"** since July 2018 to June 2019 (in **Mumba**i, India).

Project Detail :-

- ✓ **Victoria ADN Retrofit Projects (In vista)**

- ✓ Electrical Earthing Layout.
- ✓ Single Line Diagram
- ✓ Cable Tray Layout.
- ✓ Lighting Layout.

M/s KINROS, TASIAST

Worked as an **"ELECTRICAL DESIGNER"** since March 2018 to June 2018 (in **Mauritania**, **West Africa**).

Project Detail :-

- ✓ **Tasiast Gold Mine**

- ✓ (**AS BUILT DRAWING)**

- ✓ Single Line Diagram
- ✓ Schematic Drawing

M/s FLUOR DANIEL INDIA PVT. LTD.

Worked as an **"Sr. ELECTRICAL DESIGNER"** since Feb 2017 to Feb 2018 (in **Gurgaon** India).

Project Detail :-

- ✓ **Tengizchevroil, (KAZAKHSTAN)**

- ✓ Design and Model Equipment's, Lighting Fixture with SP3D, 2011 R.
- ✓ Design and Model Cable Trays, with SP3D, 2011 R1.
- ✓ Generate Electrical Layouts using Smartsketch Drawing Editor.
- ✓ Checking Clash Report.
- ✓ MTO for Lighting, Cable tray, Earthing Layout.
- ✓ Lighting Layout.
- ✓ Cable Routing Layout.

M/s JACOBS ENGINEERING IND. PVT.LTD

Worked as an **"Sr. ELECTRICAL DESIGNER"** since Jan 2016 to Feb 2017 (in **Mumba**i, India).

Project Detail :-

- ✓ **OCP - JORF MP-SAP & ENERGY PROJECT, (MOROCCO)**

Modeling Of Electrical Raceways, Lighting Fixtures, Welding Receptacles, Lighting & Power Panels , clash clearing & co-ordination with other discipline, updations and extracting views from model and annotating all features which are captured in models **PDS.**

As a Designer prepared / updated design drawing on 'Auto-CAD' for following projects: -

- ✓ **OCP - JORF MP-SAP & ENERGY PROJECT**

- ✓ Electrical Earthing and Power Layout.
- ✓ Below grade Earthing layout.
- ✓ Lighting Protection Layout.
- ✓ Lighting Layout for OSBL Area.

- ✓ **OCP- PHOSPHORIC CONCENTRATION UNITS PROJECT**

- ✓ Updating of Single line diagrams.
- ✓ Updating of Equipment layout.

M/s JACOBS ENGINEERING IND. PRIVATE LIMITED

Worked as an **'ELECTRICAL DESIGNER'** since Mar 2015 to Nov 2016 (in **Mumbai**, India).

Project Detail: -

- ✓ **BIO-PROPANE PROJECT, (FINLAND, NETHERLAND)**

Job involves responsibilities in Modeling Cable trays, modeling of lighting equipments, modeling of electrical pipe (conduit) & updations and extracting views from model and annotating all features which are captured in models as per client's requirement by using **PDS.**

M/s Burns & McDonnell ENG. INDIA. LTD

Worked as an **'ELECTRICAL PDS MODELER"** since Aug 2014 To Feb 2015 (in **Mumbai**, India).

Project Detail :-

- ✓ **JUMBO PROJECT, (U.S.A)**

- ✓ Generate Electrical layouts using PDS Drawing Manager.
- ✓ Design and Model Cable Trays, with Raceway Modelling.
- ✓ Lighting Layout.
- ✓ Cable tray Layout.

M/s WORLEY PARSONS SEA IND. LTD.

Worked as an "**Sr. ELECTRICAL DESIGNER**" since Aug 2013 To Aug 2014 (in **Mumbai**, India).

Project Detail :-

- ✓ **HANGINGSTONE PROJECT, (CANADA)**

- ✓ Generate Electrical layouts using Smartsketch Drawing Editor.
- ✓ Design and Model Cable Trays, with SP3D, 2011 R1.
- ✓ Electrical Layouts.

M/s J.RAY. McDermott

Worked as an **"Sr. ELECTRICAL DESIGNER"** since Mar 2013 To July 2013 (in **DUBAI**, **UAE**).

Project Detail :-

- ✓ **SAUDI ARAMCO SAFANIYA PHASE-II PROJECT**

- ✓ Design and Model Cable Trays, Lighting fixture, Electrical and Instrument Equipments, with PDMS Design module.
- ✓ Generate Electrical layouts using PDMS Draft module.

M/s NATIONAL PETROLEUM CONSTRUCTION COMPANY (NPCC)

Worked as an **"Sr. E&I DESIGNER"** since Mar 2011 to Feb 2013 (in **Abu Dhabi**, **UAE**).

Project Detail :-

- ✓ **ADMA OPCO- ZCSC DEMOTHBALLING PROJECT**

- ✓ Design and Model Cable Trays, Lighting fixture, Electrical and Instrument Equipments, with PDMS Design module.
- ✓ Generate Electrical layouts using PDMS Draft module.JA
- ✓ Switchgear Room Equipment's and MCT modeling.
- ✓ All deck Power & Lighting Equipment's and Penetration Modeling.
- ✓ Lighting Layouts.
- ✓ PDMS coordination in the dept.
- ✓ Attending Model Reviews 30%, 60%

M/s JACOBS ENGINEERING IND. PRIVATE LIMITED

Worked as an **'ELECTRICAL DESIGNER'** since Nov 2010 To Mar 2011 (in **Hyderabad** India).

Project Detail :-

- ✓ **SCP-2 Project**

- ✓ PDMS Modeling for Lighting Fixture, Cable Tray , All Electrical Equipments.
- ✓ Motor Schematic drawings.
- ✓ Hazardous area Classification.

M/s KENTZ-QATAR
(ENGINEERS & CONSTRUCTORS)

Worked as an **'ELECTRICAL DESIGNER'** since Nov 2009 to Nov 2010 (**Doha**, **Qatar**).

Project Detail :-

- ✓ **Laffan Refinery Project**

- ✓ Electrical Earthing layout
- ✓ Single Line Diagram
- ✓ Cable Tray Layout.
- ✓ Hazardous Area classification

M/s FLUOR DANIEL INDIA PVT. LTD.

Worked as an **'ELECTRICAL DESIGNER'** since Oct 2007 To Oct 2009 (in **Gurgaon** India).

Project Detail :-

- ✓ **Total Refinery Project (PORT ARTHUR U.S.A)**

Job involves responsibilities in Modeling Cable trays, Tray fill calculation & cable routing, prepared lighting calculation & modeling of lighting equipments, modeling of electrical pipe (conduit) & underground layout, updations and extracting views from model and annotating all features which are captured in models as per client's requirement by using **Chalmlite, PDS, Microstaion J & AutoCAD.**

- ✓ **The Shell Petroleum Development Company of Nigeria Ltd.**

3D modeling of Electrical cable trays, Support, Underground trenches, lighting fixture in PDS Raceway. 3D Modeling of Electrical & Instrument Equipment's in PDS Equipment Modeling. Extraction & updating all Electrical Layouts in **Drawing manager** / **Microstaion and Autocad**. Updated cable schedules, cable drum schedules, Electrical Load List, panel schedules.

- ✓ **Gasco Refinery Project**

- ✓ Electrical Earthing Layout.
- ✓ Single Line Diagram
- ✓ Cable Tray Layout.
- ✓ Lighting Layout.
- ✓ Hazardous Area classification

M/s BEC-REL ENG. INDIA. LTD

Worked as an **'ELECTRICAL DESIGNER'** since Jan 2007 To Sep 2007 (in **Mumbai** India).

Project Detail :-

- ✓ **Jamnagar Eng. Refinery project (JERP)**

Job involves responsibilities in Modifications, Updations and Extracting views from 3D model files and annotating all features which are captured in Models as per client's requirement by using **PDS, Microstaion J.** Resolve model clashes & after Model review tags.

M/s JACOBC ENG. INDIA. LTD

Worked as an **"ELECTRICAL DESIGNER"** since Feb 2006 To Dec 2006 (in **Mumbai** India).

Project Detail :-

- ✓ **Kimberley Clark Project**

Road Runner l1 Machine – The works included designing for section C1 to f1 modules & CCE enclosure in that prepared E1, E2 & E6 drawings, ll extract, clouding work for install & demo packages, wire pull, work break down & check out guide.

- ✓ **Dow Ottawa**

- ✓ Design and Model Cable Ladder Trays, with PDMS Design module.
- ✓ Generate Electrical layouts using PDMS Draft module.JA

- ✓ Participated & completed 3D model in PDMS for 30%, 60% & 90% for model reviews.
- ✓ Carried out Equipment modeling for: Transformer, Lighting & Heat trace panel, Junction Box, Lighting Fixture, Lighting Receptacle, Welding Receptacle and LCS with support in PDMS Design.

M/s TCE CONSULTING ENG. INDIA. LTD.

Worked as an **"ELECTRICAL DRAUGHSTMAN"** since Nov 2004 To Jan 2006 (in **Mumbai** India).

Project Detail :-

- ✓ **IGCAR**

- ✓ Electrical Earthing layout
- ✓ Single Line Diagram
- ✓ Cable Tray Layout.
- ✓ Hazardous Area classification
- ✓ Lighting layout

M/s KONSTELEC ENG. PVT. LTD

Worked as an "**ELECTRICAL DRAUGHTSMAN"** since Sep 2002 To Oct 2004 (in **Mumbai** India).

Project Detail :-

- ✓ **Jamnagar Refinery**

Job involves working on lighting layout, earthing layout, power layout, underground layout & single line diagrams by using Autocad-2000 & MicroStation.

MODELING SOFTWARE :-

- ➢ Plant Design System (PDS)
- ➢ Plant Design Management System (PDMS)
- ➢ SmartPlant 3D (SP3D)
- ➢ Avea E3D (Training in Jacobs)

2D SOFTWARE: -

- ➢ Micro station J, SE.
- ➢ Well versed with Autocad Rel. 2004, 2002, 2000 & 14.
- ➢ Dialux Version for Lighting.
- ➢ SmartPlant Review, Smart sketch Editor.
- ➢ Navis-work.

EDUCATION QUALIFICATION :-

- Passed H.S.C Exam.

TECHNICAL QUALIFICATION :-

- Passed Diploma in “Electrical Engineering”
- Passed “Bachelor Electrical Engineering”

PERSONAL DETAILS :-

Date of birth	:	9th December
Sex & Maritial status	:	Male & Married
Languages known	:	English, Hindi & Marathi
Hobbies	:	Cricket, Volleyball & Listening music.
Passport details	:	Passport No.: U 1634548
	:	Place of issue: Mumbai

SANTOSH VILAS NIKAM