

Snehal Shingare

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### **Summary:**

Highly motivated **Electrical Engineer**, having over **8 years** of experience who works diligently towards the schedule, budget, and scope of each project utilizing internal & external resources to achieve project goals. Passionate for solving problems & improving the built environment, excellent at coordination with multidisciplinary engineering team. Experience in design includes but not limited to single & multifamily residential, low rise and high rise residential, commercial, warehouse and industrial projects.

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### **Highlights:**

- Short circuit and voltage drop calculations
  - Cable sizing & calculations
  - UPS & Battery sizing
  - Designing, Planning & Scheduling
  - Power distribution, lighting, LV design
  - Solar design
  - Panel & Switchboard scheduling
  - Substation design upto 33kV
  - Relay co-ordination
  - Cost estimation
  - Team management
  - Tender documentation
  - Fire Alarm
  - Lightning & Earthing design
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### **Core skills:**

Proficient with AutoCAD, DIALux, MS Office, Revit, Helioscope, AGI32.

Intermediate experience with ETAP, Hevacomp.

Excellent interpersonal, written & verbal communication skills.

Ability to exercise independent professional judgment & open to change.

Excellent planning and organizational skills.

Ability to manage multiple projects while maintaining deadlines.

Well versed with NEC, IEC, IS, NBC, IEEE, ECBC, NFPA-72 & BS codes.

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### **Experience:**

#### **Sr. Electrical Engineer at Katerra, Pune**

December 2019 to Present

- Preparation of Single Line Diagrams, Short Circuit Analysis & Voltage Drop calculations
- Preparation of power and lighting plans and elevations for internal and external spaces.
- Preparation of solar rooftop design, battery sizing, SLD.
- Preparation of Fire alarm drawings as per NFPA-72.
- Preparation of device specifications and Basis of Design documentation.
- Oversee, review, or participate in detailing, BIM modeling, and high LOD electrical design.
- Partially support development and review of Fire Alarm and Telecom system designs.
- Perform value engineering of electrical system designs factoring in costs, constructability, and manufacturability (i.e. prefabrication) and working with the product leads and other resources.
- Coordinate with other engineering disciplines, architecture, etc. to develop high quality building products.

#### **Team Leader at New York Engineers, Pune**

September 2017 to November 2019

- Planning & scheduling of resources required to deliver the services.
- Provide managerial, technical, and engineering expertise in all functionality of the MEP systems.
- Determine improvements in MEP design.

- Prepare electrical diagrams, detailed physical layouts, cost estimations, and load calculations.
- Review shop drawings, submittals, RFI's, and facilitated all other CA questions.
- Preparation of project specifications.
- Size equipment including panel boards, circuit breakers wires and conduits, switchgear, and transformers to create one-line diagrams.
- Conduct short circuit studies and performed voltage drop calculations
- Design fire alarm systems for several market sectors including storage spaces and commercial buildings.
- Design and scheduled lighting systems, fixtures and low voltage lighting controls.
- Coordination with other engineering disciplines.
- Handling a team of 15 members & ensure proper information flow.

#### **Lead engineer at S N Joshi Consultants Pvt. Ltd, Pune**

September 2012 to November 2016

- System Load studies & equipment sizing, Fault studies & fault level calculations
- Preparation of Cable Schedules & Sizing of cables as per Voltage Drop Calculations.
- Lighting system design by Lux level Calculations.
- Earthing & UPS Sizing Calculations.
- Capacitor bank sizing calculation & selection.
- Lightning Protection system design calculations.
- Electrical System Single line diagrams for HT & LT side.
- Tender documents like Bill of Quantities, technical specifications, rate analysis & approximate budgetary.
- Selection HT, LT switchgear & protective devices.
- Preparation of Substation layouts as per space considerations.
- Preparation of Cable Tray, Cable Trench layouts.
- ELV system design (Preparation of TV, TEL Schematic Single line diagrams).
- Review of Vendor Electrical drawings and documents.

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#### **Soft Skills:**

- Good communication skills.
- Energetic & smart working.
- Eager to learn new technologies.
- Problem Solving.
- Capable to handle critical & complicate situations in an effective & efficient manner.

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#### **Academic Qualification:-**

- B.E in Electrical Engineering from ZES's Dnyanganga College of Engineering & Research, University of Pune with an aggregate of 70.20% in 2012.
- Diploma in Electrical Engineering from Government Polytechnic, Pune with an aggregate of 76.44% in 2009.
- SSC from Jai Hind High School, Pune with 80.00% in 2006.

I hereby informed that above mentioned information is true to best of my knowledge and belief.

**Place:** Pune

**Date:** / /2021

**(Snehal Shingare)**