

SIVAKUMAR A

3.5 Years Experienced Electrical Engineer

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Passport: M1423584, Validity 21. August 2024

EDUCATIONAL QUALIFICATION

- ✓ Bachelor of Electrical & Electronics Engineer at First Class where graduated at 2014 from Dr.Mahalingam College of Engineering Technology, Anna University Chennai.

SUMMARY OF EXPERIENCE

Designation : **Electrical Engineer & Associative Service Engineer**
Field of Experience : Oil & Gas & Power – Petrochemical, Refinery, Hydrocarbon
Sub-station, Home Automation.
Job Profile : Detailed Design Engineering, Power System Studies (ETAP), Proposal Preparation, Drafting, System Design, Hardware Wiring, Programming & Testing.

ORGANISATIONAL SCAN



- ✓ Sreshta Industrial Detail Engineering Services (P) Ltd Hyderabad-India, Working as Electrical Engineer from November 2015 to till date.



- ✓ go4Control Home Automation Pvt.Ltd Coimbatore-India, Worked as Associative Engineer Service from September 2014 to November 2015.

SOFTWARE PROFICIENCY

Electrical Simulation : **E-TAP – 12.6.**
Lighting Lux Calculation : DIALux
Electrical Database : AVEVA Electrical, SPEL (Basic Level).
Drafting Software : AutoCAD, MicroStation V8 (Basic Level)
Automation software : Composer 2.5.3, 2.6, 2.7
Office Package : Microsoft office tools.

TRAININGS UNDERGONE

- ✓ LED Passport Certification (PHILIPS)
- ✓ LED Associative Certification (PHILIPS)
- ✓ Embedded System Design (ACCEL)

KEY SKILLS

- ✓ Detailed Design Engineering and Drafting Layouts
- ✓ Power System Analysis like **Load Flow & Short Circuit Studies, Relay Setting Studies.**
- ✓ Equipment Engineering for LV, MV
- ✓ Expertise in preparation of Electrical Drawing of **SLD.**
- ✓ Expertise in preparation of Electrical **Layouts** like Electrical Equipment Layout, Lighting Layouts, Earthing Layouts, Cable Tray Layouts, Lightning Protection Layouts
- ✓ Expertise in Preparation of Proposal Engineering
- ✓ Expertise in Technical Presentation Skills
- ✓ Expertise in Vendor Document Review
- ✓ Rare combination of Detailed Engineering skills with Power System Studies
- ✓ Conversant in International Engineering Codes & Standards and their application (IEC, IS)

PROFESSIONAL EXPERIENCE

Power System Studies

- ✓ Load Flow Analysis (Optimal Tap Selection Studies, Equipment Load Analysis & Estimation of Plant Electrical Load, etc.)
- ✓ Short Circuit Studies & Analysis
- ✓ Relay Setting and Co-ordination Studies & Setting Table Preparation
- ✓ Arc Flash Analysis
- ✓ Sizing & Selection of Major Equipment's M.V & L.V Switchgears, Generator, Motor, Transformer, M.V & L.V Cable, Circuit Breakers, CT & PT, Capacitor Banks & VFD Selection Studies

EXPERIENCE IN DETAILED ENGINEERING DESIGN

Documents

- ✓ Preparation of Specification - Various Electrical Equipment's (Detailed Engineering specification) for Industries and Commercial Buildings
- ✓ Load List Preparation
- ✓ Sizing & Selection of Equipment like Generator, Transformer, M.V & L.V Cable Sizing, Solar Panel, Battery & Battery Charger Sizing, CT & PT, Protecting Devices
- ✓ Vendor Document Review for Major Equipment like M.V & L.V Switch-gears, Generator, Motor, Transformer, M.V & L.V Cable, Battery & Battery Charger, and Lamps
- ✓ Data sheet preparation for Electrical Equipment s
- ✓ Cable Schedule Preparation for Power, HVAC & Lighting
- ✓ Illumination Calculations for Indoor and Outdoor using DIALux.
- ✓ Hazardous Area Classification & Selection of equipment
- ✓ Cable Tray Sizing & Cable Tray Fill Report Preparation
- ✓ BOM / MTO Preparation for Electrical Networks

Drawings & Layouts

- ✓ **Single Line Diagrams** for L.V & H.V (SLD)
- ✓ Equipment Layout – E-HOUSE& Substations
- ✓ Lighting & Small Power Location Layout
- ✓ Earthing Layout Preparation
- ✓ Cable Tray Layout
- ✓ Power & Installation Drawing Preparation

Home Automation

- ✓ Collecting customer requirements and suggesting ideas
- ✓ Clarifying technical doubts of the customers and demonstration
- ✓ System design
- ✓ Assigning IP address and Zigbee address for the automation components
- ✓ Hardware wiring
- ✓ Programming and testing

PROJECTS WORKED & HANDLED FOR POWER SYSTEM STUDIES

Project : **MNZ Fertilizer Plant Project (Gujarat), India**
Client : M/s. Coromandel International Limited

PROJECTS WORKED & HANDLED FOR DETAILED ENGINEERING DESIGN

Project : **MNZ Fertilizer Plant Project (Gujarat), India**
Client : M/s. Coromandel International Limited

Project : **VENUS STAR WP Plant Project (Uttar Pradesh), India**
Client : M/s. India Pesticides Limited.

Project : **Drawings & Data sheet, Load List, Cable Sizing Preparation in Aveva Electrical**
Client : Consolidated Contractors Company-India.

PROJECTS HANDLED FOR BID

Project : **Project development offshore platform (CPP & LQUP).**
Client : ONGC, Offshore – India.

Project : **Revamping for crude and distillation unit (CDU / VDU).**
Client : M/s. HPCL- India

Project : **Hydrogen Generation Unit (HGU) package LEPC-1 at local panipat refinery for BS-6 project.**
Client : M/s. IOCL- India.

PROJECTS HANDLED FOR HOME AUTOMATION

Project : **Programming and testing for Lighting, Audio-Video, Security and comfort automation for a 3BHK apartment.**

Client : **Sam Surya Construction Coimbatore – India.**

PERSONAL INFORMATION

- ✓ Name : A SIVAKUMAR.
- ✓ Date of Birth : 20th April, 1993.
- ✓ Nationality : Indian.
- ✓ Gender & marital status : Male & Unmarried.
- ✓ Languages Known : English, Tamil, and Telugu.