U. Anto Santiagu Valan

Native Address: H.no. : 4-80, North Street, Kovalam, kanyakumari Dist, Tamil Nadu, Pincode - 629702, India.

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CAREER OBJECTIVE

To work in a esteemed organisation where I can contribute my strength, technical skills, grow professionally & satisfying the goal of the organisation & also aiming for challenging assignments in the field of Oil & Gas Refinery, Petro-chemical Plants, Large Industrial facilities, Infrastructure & Buildings.

AREAS OF EXPERTISE

- **Electrical Detail & Design Engineering.**
- **Preparing MR's & TBE.**
- **Vendor quotation Review.**

PROFILE SUMMARY

- A competent professional with 12 years of experience in **FEED, Electrical Detail & Design Engineering, Preparing MR's & TBE, Vendor quotation review, Project engineering** of LV & MV networks in **onshore** mainly in Saudi Aramco Projects, Sabic Projects & Marafiq projects and SEC Projects.
- Prepares Electrical engineering calculations by following standard methods and principles.
- Detailing & Designing of overall Electrical system by Performing Electrical calculations, Preparing Electrical Layouts, Material requisitions & BOQ.
- Producing material take-off and material requisition, and Review Bids and Technical Evaluation.
- Resolving any related engineering issues by applying accepted principles, codes, and standards.
- Regularly meeting and corresponding with clients or outside personnel.
- Coordinate with Clients & sub-contractors regarding their site activities to ensure the timely availability of work permits, Plant facilities & Inspection services.
- Preparing the Material Requisition for Electrical Systems.
- Technically estimate vendor offer, issue technical bid tabulations.
- Ability to work in tight deadlines and prioritisation of work to achieve them.
- Ability to manage multiple projects simultaneously.
- Managing the time to ensure smooth execution of projects.
- Well versed with the concepts of standards / codes like **Saudi Aramco Engineering Standards (SAES), Sabic Engineering Standard (SES), Saudi Electricity Company (SEC),** High commission Industrial Security directivies **(HCIS),** National Electric Code **(NEC), IEC, IEEE & ANSI.**

ENGINEERING SOFTWARE TOOLS

- **Dialux 4.11 Lighting**
- **Micro Station**
- **AutoCAD**
- **MS Office**

Role and Responsibilities:

- Attending kick-off meeting & clarifying the work scope with clients.
- Preparing Electrical Deliverables list & input to the DCL.
- Conducting Site Survey to collect data and latest information from the site / multi parties involved in the project for as building the Load list, Key Single Line Diagrams & Layouts.
- Travel to site for site survey, participate in technical meetings with site representatives to discuss the technical requirement, study findings and recommendations.
- Coordinate with other departments to get input data necessary for electrical design.
- Preparing the load list.
- Preparing overall & individual single line diagrams.
- Conducting the load summary to size and verify electrical equipment.
- Performing transformer sizing
- Performing Cable Sizing & Voltage drop calculation.
- Performing Cable Tray, Trench, Duct Bank and Conduit Sizing.

- Performing UPS sizing / battery Sizing & Selecting UPS Configuration as per criticality of loads.
- Actively involved in sizing of overall electrical system (i.e. Sizing and Selection of Circuit Breaker, Disconnect switches, Relays, CTs, PTs, cables Etc…).
- Performing lighting calculation using Dialux Software.
- Preparing hazardous area classification drawings.
- Design of Package Substation (i.e. R.M.U, Transformer, LVDB).
- Preparing Specifications, Data-sheets and material requisitions of main electrical equipment.
- Preparation of Design drawings like electrical Lighting, Power, Equipment, Earthing, Cable routing, Cable tray layouts and External Trench and External lighting layouts.
- Preparation of Electrical Installation details.
- Preparing Weekly progress report & monthly progress reports.
- Electrical Inputs are provided in Construction Scope of Work and it will be the Basis for Construction Contractor.
- Complete understanding of entire Existing Electrical Facility including Power Distribution, Control schematics & Wiring.
- Review the Engineering documents & Drawings & specifications issued by the EPC contractor.
- Regularly performs reviews of vendor documents to ensure specifications and data sheet requirements are met.
- Preparing Red-line mark-ups & As-built drawings based on the changes done at site.
- Preparation of Bill of quantities (BOQ) covering all the items as per the scope of works.
- Support during Cost Estimation of project.
- Technically estimate vendor offer, issue technical bid tabulations.
- Formulating electrical package for Squad-Check and passed to QA / QC Department.
- Performing quality checks of the design and engineering of a small to mid-sized project to ensure accuracy.

ORGANISATIONAL EXPERIENCE

COMPANY NAME: Enerfac Solutions Private Limited, (Chennai, India as Senior Electrical Engineer (May 2020-Till now (1 Years 7 months))

Client: MARAFIQ
1. Project: Design and Engineering scope for Inochem Metering Skids Project

Client: GAS/SABIC
1. Project: Installation of Upgraded Oxygen Detector

Client: HADEED/SABIC
1. Project: Reduce Zinc composition at Galvanizing Line

Client: IBN ZAHR/SABIC
1. Project: To Upgrade the Obsolete CEMS Analyzer, Utility I, MTBE II, Utility II

Client: PETROKEMYA/SABIC
1. Project: New Moisture / Sulphur Analyzers for Butene-1 Plant

Client: YANSAB/SABIC
1. Project: Install Ambient Air Monitoring Analyzer at Yansab fence line Monitoring

Client: KEMYA/SABIC
1. Project: Kemya Elastomer Plant Environment permit to operate Requirement

Client: SAFCO
1. Project: RCER 2015 & Environment Communication to provide Online SWR Monitoring

COMPANY NAME: SASEC (Saham Al-Shamal Engineering Consultant), Al-khobar, Saudi Arabia as Electrical Engineer (October 2013-May 2020 (6 Years 7 Months))

PROJECTS DONE:

Client: TEKFEN/ARAMCO
1. Project: Satellite Gas Compression Plants (SaGCP) Pipelines
2. Project: North Gas Compression Plant Pipelines
3. Project: South Gas Compression Plant Pipelines

Client: GAS/ARAMCO

1. Project: SALES GAS DELIVERY SYSTEM (BI-21-00068) ADDAR SPECIALIZED CHEMICAL SOLVENT FACTORY
2. Project: SALES GAS METERING SYSTEM FOR BEEA'H (BI-21-00080) BEEA'H
3. Project: BI-21-00083: Fuel supply to YNP: Tetra Radio Design (E&I/Communication)
4. Project: Rabigh Plant Change Project

Client: YASREF/ARAMCO

1. Project: Design of Existing SIH-1590 Building Extension Works

Client: CAT/ARAMCO

1. Project: Haradh satellite field project SAPMT camp and office
2. Project: SAPMT & CONTRACTOR'S TEMPORARY SITE OFFICES
3. Project: SAPMT CAMP AND OFFICE KHUFF GAS PROJECT
4. Project: CAT Haradh Camp maintain Potential program
5. Project: SAPMT CAMP AND OFFICE KHUFF GAS PROJECT (HARMALIYAH)
6. Project: Design Engineering of Temporary Facilities for Saudi Aramco SBWIP Project

Client: Azmell sepco/Aramco

1. Project: TEMPORARY SITE FACILITIES FOR SAPMT

Client: Abdulah A.M. Al-Khodari & Sons Co./ARAMCO

1. Project: ENGINEERING AND DESIGN SERVICES - WAREHOUSE AND OTHER WORKS.

Client: MRK/ARAMCO

1. Project: NMR review

Client: NGDC/ARAMCO

1. Project: SALES GAS CUSTODY TRANSFER METERING SYSTEM METERING STA SECOND INDUSTRIAL CITY (BI-21-00079)

Client: AL-BARGASH/ARAMCO

1. Project: Detailed Engineering Design of Site Office and Site Infrastructures/Utilities
2. Project: Foundation detail & Electrical drawings - PSC -II Phase Buildings

Client: NBC/ARAMCO

1. Project: HARADH CAMP KHUFF GAS PROJECT

Client: Ingress partners/ARAMCO

1. Project: 3rd Party Review and Certification of FDAS for Replace Fire Alarm System Project

Client: Tamimi/ARAMCO

1. Project: Hawiyah Contractors Park
2. Project: Hawiyah waste treatment plant

Client: AL-BAYRONI/SABIC

1. Project: Installation of New Air Compressor (Standby) – 2006-JA

Client: AL-MOURJAN/SEC

1. Project: AL-MOURJAN GAS PRESSURE REDUCTION STATION

Client: SEC

1. Project: DEVELOPMENT OF ASBUILT DRAWINGS FOR SEVERAL SUBSTATIONS IN JUBAIL (43BD, 44BC, 17BD, 19BD, CITY-1, CITY-2)

Client: FPC/MARAFIQ

1. Project: NORMAL PARAFFIN AND DERIVATIVES COMPLEX-YANBU.
   PART I - FEED LEVEL SOW FOR 115 KV POWER FROM MARAFIQ.
   PART II – UNDER GROUND CABLE WORK FROM SS10J TO FPC FOR 115 KV POWER

Client: MARAFIQ - YANBU

1. Project: CONSTRUCTION OF LIFT STATION IW-10A
2. Project: UPGRADING OF PLANT & INSTRUMENT AIR COMPRESSORS

Client: AL-FANAR

1. Project: DIESEL NETWORK

Client: EAST GAS COMPANY LIMITED (EGCL)

1. Project: THIRD PARTY ENGINEERING CONSULTANT SERVICES GAS SUPPLY BRANCH TO GCIR NORTH#57, GCIR SOUTH #58 & GCIR NEW PLANT #59

Client: **NGDC**

1. Project: Detailed Engineering & Design [DED] of NGDC dry gas supply system for twelve [12] additional Customers (Consultancy)

Client: **SIEMENS**

1. Project: MRI BUILDING FOR MODA-AFH-KAAB, Dhahran

Client: **TAMIMI/TAFGA**

1. Project: TAFGA - RC LABOR ACCOMMODATION

Client: **TISCO/Marafiq**

1. Project: Replacement of Gen Set for Pumping Stations at Marafiq-Yanbu
2. Project: Workshop

Client: **UIPS/MARAFIQ**

1. Project: 115KV Power From Marafiq to Farabi

COMPANY NAME: ACEC (Arabian Consulting Engineering Centre) Al-khobar, Saudi Arabia as Electrical Engineer (April 2012 to October 2013-(1 Years 6 Months))

PROJECTS DONE:

Client: **SAIPEM/ARAMCO**

1. Project: JAZAN REFINERY (Project Proposal)

Client: **SAIPEM/ARAMCO**

1. Project: RIYADH REFINERY CLEAN TRANSPORTATION FUEL (Project Proposal)

Client: **SABIC/SAUDIKAYAN**

1. Project: PROVISION OF ADDITIONAL STORAGE TANK AND LOADING FACILITY

Client: **CHEVRON**

1. Project: NEW VILLAS

Client: **CHEVRON**

1. Project: NEW OPERATION CENTRE PROJECT

PREVIOUS EXPERIENCE

COMPANY NAME: Sri Maha Lakshmi Electrical Service, Chennai, India as Electrical Service Engineer (Jan 2010-March 2012 (2 Year and 2 months))

Nature of work:

Maintenance and service of all types AC and DC Motors, Transformers and generators.

EDUCATION

- **Bachelor of Electrical & Electronics Engineering in Sathyabama University**, Chennai, India.
  Year of Passing in 2005-2009.

SIGNIFICANT STRENGTHS:

- Patience, determination, and persistence to troubleshoot client issues
- Dynamic, results-oriented problem solver
- Easily understand and solve technical problems
- Skilled at evaluating options and generating solutions
- Strong problem-solving and analytical skills
- Enjoy working as a team member as well as independently
- Planning, goal setting as per Work

PERSONAL DETAILS

Date of Birth:	17th January 1988
Languages Known:	English, Tamil
Nationality:	Indian
Passport Details:	T6768853 (Issued at Riyadh & valid up to 18/06/2029)
Marital Status:	Married
Driving License:	Saudi Arabia (Issued at Al-Khobar & valid up to 25/04/2025)

DECLARATION:

I hereby declare that the information stated above is true and correct to the best of my knowledge.

Place: Kovalam, Tamilnadu, India. (U. ANTO SANTIAGU VALAN)

Date: 13-01-22