# DANIEL V
## Senior Electrical Engineer

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**An accomplished Electrical Engineer seeking assignments in ~**

**TESTING AND COMMISSIONING /MAINTENANCE) /DESIGN ENGINEERING / RESEARCH & DEVELOPMENT / PLANNING ENGINEERING / PROJECT MANAGEMENT/QUALITY CONTROL**
**Industry Preference: Electrical / Switchgears /Solar/ Construction/MEP**

### PROFILE SUMMARY

- BE (Electrical & Electronics) with more than **7 years** of experience of Middle east & Indian hands own experience in MEP Projects Execution, Hotels, High rise, residential building construction projects and Solar & Switchgear Industry:

| | | |
|---|---|---|
| Site Engineering | Client Relationship Management | Project Management |
| Team Management | Testing & Commissioning | Electrical Designing |
| Installation | Inspection | Cost Control |
| Production | Quality Control | |

- Expertise in planning, engineering, managing and executing projects including **installation, testing & commissioning operations**
- Adept in managing activities involving resource planning, in-process inspection, team building and co-ordination with internal / external departments
- Hands-on experience in coordinating the **swift ramp up of projects** through effective monitoring and analysis of project status
- Track record of targeting zero safety violation of team members, in terms of PPE and other works carried out at site.
- Track record of developing operations & maintenance procedures to increase the efficiency and accordingly implementing standards and ensuring adherence to quality standards through in-process checks.
- An effective communicator, proactive planner & negotiator with strong analytical, problem solving, strong communication skills and organizational abilities.

### CORE COMPETENCIES

- Formulating & implementing strategies for projects and managing complete range of activities like planning, **site survey**, feasibility study and acceptance testing right from conceptualization till installation
- Carrying out advance planning for resource mobilisation, manpower deployment and rendering support
- Ensuring the execution of projects within time, **cost & budgetary parameters**
- Negotiating and finalising all project related materials & activities
- Coordinating with Field Engineers for obtaining site status reports and updates on system performance
- Managing all site activities involving co-ordination with Site Management as part of overall support planning
- Mobilising and **supervising manpower** resources for various types of jobs, resolving performance bottlenecks and ensuring their focus towards project goals in a cohesive manner

### ORGANISATIONAL EXPERIENCE

**Aug'17- Till Date with Rockwell Automation India Pvt. Ltd as Product Configuration Engineer**

**Key Result Areas:**

- Component Selections, Single Line Diagram, Assembly Drawings, Bill of Material, Structural Layouts, Electrical Schematics
- Critically evaluate information gathered from multiple sources, reconcile conflicts, decompose high-level information into details, abstract up from low-level information to a general understanding, and distinguish user requests from the underlying true needs
- Working with the marketing and engineering team to collect, understand and review the requirements related to any change or new feature implementation.
- Updating the specification document (configurator workbooks) to be used by development team.
- Working with the development team to provide clarification, whenever required.
- Coordinating with various teams for implementation, testing and delivering the solution on time.
- Develop and execute functional test scenarios and test cases. Log and escalate issues found during testing.
- Provide a clear summary of test results and issues to Management

**Oct'14 –Oct'16: Meta Switchgear Company, Riyadh, Saudi Arabia as Electrical Design Engineer/Project Engineer**
***(Team Size: 40-50 members)***

**Key Result Areas:**

- Reviewing technical proposals and resolving technical issues with customers/sales in order to prepare clear inputs for Engineering Activities
- Spearheading activities involving working out various requirements, monitoring overall project operations and ensuring timely completion
- Coordinating with clients/consultants to understand the drawings and specifications for designing of Single Line Diagram, Protection Schemes, General Arrangement, Foundation and Bill of Materials for Low Voltage (LV) Switchgear Panels
- Preparing the coordination study and short circuit study
- Scrutinizing the design output and reviewing Engineering documentation and get the drawings approval from client Validating schematics of control & protection systems, LV switchgear design
- Managing technical details, design drawings, shop drawings as built drawings, electrical calculations, material submittals, specifications, design analysis report, inspection test plans, project execution schedules and bill of quantities
- Reviewing engineering drawings and technical specification, updating drawings, calculating BOM
- Design & execution of Low Voltage System selection of cables breakers on load ACDC panels as per SEC specification Expert in designing of low voltage panels as per IEC standard
- Preparing the General Arrangement, Control Scheme & SLD and calculating Busbar Size, Panel Dimension, CT Size & Ratio, Panel Size, and so on
- Raising the PO (Purchase Order) for all the required material after preparation of BOM Issuing drawings (SLD, **G**A, Schemes, BOM, Wiring Schedule and Fabrication) for manufacturing
- Identifying areas of obstruction / breakdowns and taking steps to rectify the panel through application of troubleshooting tools

**Highlights.**

- Managed the entire gamut of activities for the major projects for Saudi Electricity Company, ABB, Siemens, Eaton and so on
- Reviewed project schedule and progress ensuring on-time completion; directed projects worth INR approximately 70 to 80 lakh Collaborated with Engineering, Manufacturing, Process Engineering and Quality to achieve cost reduction targets of INR 5 to 6 Lakhs
- Led end-to-end implementation, production support, enhancements, upgrade and consulting projects (National Power Grid(Saudi Arabia), Saudi Electricity Company(Saudi Arabia),Project of ABB(Saudi Arabia), Eaton(UAE), Technical College (Saudi Arabia)
- Directed & Planned in systematic way to complete major project of company like Saudi Electricity Company,ABB And avoided company from penalty, project from conception to completion, brought the project running behind schedule back on track and created & presented an excellent image of the company

**May'13 – Jun'14: Al Zahrani Holding, Dammam, Saudi Arabia as Project Engineer**
***(Team Size: 15-20 members)***

**Key Result Areas**

- Administering the ongoing activities like installation & testing at the site for receiving update
- Closely examining the site as per drawing and checking electromechanical aspects
- Verifying technical specifications of equipment in accordance with the client's requirements, site condition and voltage used
- Preparing technical sheet for the project
- Presiding over meetings with supervisors to discuss about the status of work
- Computing CFM and Compressor Size for Hoods & Cold and Freezer Room
- Responsible for checking Electrical, Plumbing and gas drawing according to the equipment need and specification and reflect that in site
- Follow up with all supportive departments for successful operation of project on time.

**Highlights**

- Undertook measures to conclude projects on time and within budget several time during the shutdown of equipment in hotel and labour camp arranged maintenance team and resolved problem as asap& to complete project in time; also arranged for labour from other branch
- Faced and overcome challenges for projects- Sadara,Saudi Aramco ,Golden Tulip Hotel, Intercontinental Hotel

**Jun'10 – Apr'13: Engineers Enterprises, Jabalpur as Electrical Engineer/ Project Engineer**
***(Team Size: 30-35 members)***

**Key Result Areas**
- Managing technical details, design drawings, shop drawings as built drawings, electrical calculations, material submittals, specifications, design analysis report, inspection test plans, project execution schedules and bill of quantities
- Reviewing engineering drawings and technical specification, updating drawings, calculating BOM and negotiating with suppliers / contractors as per client / project requirements
- Developing one line diagram, power plan distribution, substation, layout according to the standards
- Preparing the Design of Solar PV Power Plants (DC and AC part) including Modules, Inverter selection
- Preparation of Detail Engineering of layout and SLDs for design reviewing including SLDs, cable selection and sizing calculation, combiner, system earthing, lightning system, DC & AC loss calculation,
- Sizing of Inverters, Solar Power plants, DG sets, Transformers, AC Distribution boards, battery, Surge Protector's etc.
- Raising the PO (Purchase Order) for all the required material after preparation of BOM
- Preparation and checking of various specifications & data sheets for HV / LV Switchgear, Transformer, Switchyard equipment etc. Comparison of available technological solutions and recommendation /selection of optimum one.
- Erection of Transformer, Inverter, HT panel systems, and energy monitoring (metering) equipment.
- Installation of HT Yard and other power evacuation systems. Monitoring and operations.
- Integration and installation of systems (e.g. - Modules, strings, inverters, combiners).
- DC cabling of solar panels, installation of Array Junction Box etc.
- Earthing of structures, Lightning arrestor installation etc.

**Highlights**
- Undertaken major projects such as Barc, Pravin Electric, Bharat Electric
- 500KW On-grid Solar System Installation and commissioning, Deoghar, Jharkhand
- 10MW Solar power plant, Sardulgarh, Mansa (Punjab)

## TRAININGS

- 2 Weeks Training from 220 KV Sub-station at Madhya Pradesh State Electricity Board, Jabalpur
- 2 Weeks Training from Sanjay Gandhi Thermal Power Plant, Birsinghpur having 1340MW Generation Capacity
- 2 Weeks Training from Bargi Dam (Hydro-power Generation Capacity of 105 MW), Jabalpur

## KNOWLEDGE PURVIEW

- Sound exposure in Dry and wet Fire fighting sprinkler system FM200, Automatic CO2 and foam extinguisher, Fire extinguisher cylinders, MEP (HVAC, ELECTRICAL, PLUMBING) design codes and designs.
- Sound exposure in Electrical power load calculation and all Electrical systems installations like installation of EMT, RSC and pvc conduits, Bus Bar with tap offs cable trays and ladders, feeder cables, panel boards, MCC panels, electrical MDB'S, Earthing & lightning arrestor systems, Lighting and power system Wiring with looping and home run.
- Equipment like Lightening Arrestors, Wave Trap, Current Transformer, Isolators, Circuit Breaker, Line Isolator, Potential Transformer, Capacitor Bank, DC Supply, Control System & Measuring Instruments, Outgoing Feeders, Control Room and Transmission Line
- Generation Unit, BUS ,Power Transformer, Distribution Transformer Maintenance of Generator, Switch Yard, Control Room and Protection Device
- Different Electric Panels like DB(Distribution Board), SMDB(Sub Main Distribution Board) VFD(Variable Frequency Drive Panel), APFC (Automatic Power Factor Correction Panel), PCC Power Control Centre Panel), MCC(Motor Control Centre Panel), Distribution Panel, Synchronizing Panel,Auto Main Failure Panel, Solar Power, Solar Panel Design, Solar Pv
- ELCB, RCCB, MCB, MCCB, DOL Starter & Star Delta Starter
- Package Substation Panel, RMU(Ring Main Unit Panel)
- ACDB(AC Distribution Board) ,DCDB (DC Distribution Board ), LVDB( Low Voltage Distribution Board)
- Knowledge of protection relay functions, Knowledge of protection schemes

## ACADEMIC PROJECTS

Title: Electricity Theft Controller
Description: The basic purpose of the project was to stop the electricity theft. Electricity Theft Monitoring System focused on how to detect and monitor the electricity theft at a remote location. The proposed system prevented the illegal usage of electricity. At this point of technological development, the problem of illegal usage of electricity could be solved electronically without any human control.

Title: Load Shedder
Description: The main aim of the project was to use the electricity optimally. Load shedderwas based on fuzzy logic. The value of voltage was determined by potential transformer and current was determined by current transformer. When the product was matched with the values stored in microcontroller and if the value exceeds the priority which was predefined, the relay would operate and cut off from the particular load.

## IT SKILLS

- Application Software: MS Office Suite (Word, Excel and PowerPoint)
- Designing Software: AutoCAD, Etap, Eplan, Elecdes, Pvsyst

## EDUCATION

**2017** **Solar Photovoltaic Off Grid and On Grid : Design & Installation Course**
Iacharya Silicon Limited

**2014** **M.Tech. (Power System & Control)**
Karnataka State Open University, Mysore

**2010** **BE (Electrical & Electronics)**
Hitkarni College of Engineering & Technology, Jabalpur,Rajiv Gandhi Prodyogiki Vishwavidyalaya

## PASSPORT DETAILS

Passport No: J8012025
Date of Issue: 13/09/2011
Date of Expiry: 12/09/2021
Place of Issue: BHOPAL

## PERSONAL DETAILS

Date of Birth: 9th June, 1988
Languages Known: Hindi, English and Malayalam

## DECLARATION

I hereby declare that all the information given above is true to the best of my knowledge.

**Date** **Daniel Varghese**