VISHANTH VIJAYAKUMAR

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CAREER SUMMARY

- Electrical Engineer with experience in Electrical Design and Power System Analysis involving Power flow studies for commercial, industrial, healthcare and residential use in compliance with IEEE, NEC and NFPA codes.
- Electrical Engineer with Experience in North American and Asia Pacific Projects.
- Prepared Electrical Drawings, one line diagrams, construction drawings, riser diagrams, feasibility report and elevation diagrams for various facilities.
- Performed site surveys for project bidding, information gathering and construction phases for facilities.
- Electrical study includes performing short circuit studies, coordination study Arc Flash analysis and photometric study for various industrial facilities.
- Skilled in Electrical design and lightning software like AutoCad, Revit, Micro station, AGI and Visual.
- Proficient in Power systems application packages and tools like SKM, EasyPower, ETAP, GE-PSLF, MATLAB and PowerWorld.

KEY SKILLS

Electrical Design Drawing | AutoCAD Electrical | Revit | ETAP | Equipment Evaluation
Short Circuit Analysis | Commissioning | SKM | EasyPower | Load Flow Analysis | GE-PSLF | ASPEN
Arc Flash Analysis | Coordination Study | PowerWorld | Arc Flash Labels | Microsoft Office | Adobe Acrobat

PROFESSIONAL EXPERIENCE

Senior Electrical Engineer
Seed Engineering, Bangalore, India **Mar 2017 - Nov 2017**

- Design and Engineering of Electrical Systems for an international school in accordance with National Building Codes and standards.
- Preparation of detailed construction drawings, design reports, utility demand calculations, at various stages of the project.
- Prepare feasibility reports, construction drawings and specifications.
- Designed Electrical Single Line Diagram, Lighting Plans and Electrical Power plans.
- Preparations of load schedule, spreadsheet, equipment sizing and designing of utility corridors.
- Successfully performed innovative design to exceed client's expectations.
- Supported Associate Engineer in Electrical Design for commercial and residential buildings.
- Attended meeting with contractors, clients and owner as well as coordinated with architects, engineers and energy consultants as point of contact for Design team.

Projects:

- Electrical MEP design of International School as per LEED standards, Green Building requirements and NFPA safety requirements for Legacy Group India.
- Electrical MEP design of Commercial and Residential Buildings for Lodha group in Mumbai India.
- Lighting Calculations using Dialux to meet required lighting levels as per NBC for Undisclosed client.
- Electrical MEP design using sustainable calculation for a 100% self-sustained electrical requirement using biogas and solar power for a resort in Kabini, India.

Electrical Engineer

Gannett Fleming, New York, NY **June 2015 – July 2016**

- Designed electrical systems and developed One-Line Diagrams for commercial/industrial purposes using AutoCAD. Performed Grounding Grid Design and Calculation as per IEEE-80, NEC and Client requirements.
- Performed Site Survey for information gathering and Panel inventory at facilities for study purposes.
- Produced quality electrical engineering plans, ensuring compliance with department, project, company, utility and regional electrical entity. Industry requirements and standards were met.
- Prepared Lighting plans along with photometric calculations in Visual, AGI and design including open area zoning lighting controls.
- Served as an interface between the Electrical Engineering team and internal clients to facilitate interdepartmental relations.
- Reviewed shop drawings and answered RFIs throughout the construction phases.
- Performed Power System Analysis, Arc Flash Evaluations, Short Circuit Analysis, Equipment Evaluation and Protective Device Coordination using SKM. Analyze 208V, 480V, 4.16kV, 13.8kVand 26.4 kV systems.
- Created Coordination study Reports and provided Electrical Calculations for various facilities.
- Recommended Protective device Settings to achieve Protective device coordination for various facilities.
- Trained junior electrical members on SKM used as an electrical calculation software.

Projects:

- Electrical design and analysis of new switchgear installation at ConEd Orange and Rockland Utilities service center.
- Electrical design of new Low voltage switchgear and transformer installation for Good Samaritan Hospital in Long Island, NY.
- Electrical Design for MNR Biltmore Grand Central Facility.
- Electrical Design for the CNNR Train Assembly facility in Springfield, MA.
- Performed Arc Flash evaluation and Power system analysis for National Railroad Passenger Corporation (Amtrak) in various facilities in New York, New Jersey and Connecticut.
- Printed arc flash labels for electrical equipment with appropriate protection equipment as per National Fire Protection Association (NFPA-70E).
- Performed grounding grid calculations at a pump house facility for a confidential client.
- Performed Power System Study for ConEd Orange and Rockland Utilities facility as per NFPA-70E.

Electrical Engineer

Current Solutions P.C., White Plains, NY **Feb 2014 – Mar 2015**

- Performed Power System Analysis Arc Flash, Short Circuit Analysis, Equipment Evaluation and Protective Device Coordination study using SKM, EasyPower.
- Successfully designed electrical One-Line Diagrams for Power System Analysis and Study from compiled existing Design Drawings, Shop Drawings, and Submittals using SKM, EasyPower.

Projects:

- Successfully Performed Power System Short Circuit Analysis, Arc Flash Analysis and Coordination study for Bronx Mental Health Research Facility with 10 buildings in accordance with IEEE, NEC and NFPA codes using SKM.
- Recommended settings to achieve best possible protective device selective coordination for utility-fed and emergency system.

- Performed Power System Short Circuit Analysis, Arc Flash Analysis and Coordination study for Aqua Pennsylvania pump stations across 5 counties with recommended breaker settings.
- Performed Power System Short Circuit Analysis, Arc Flash Analysis and Coordination study for SUNY Purchase Facility.
- Performed arc flash study for New Rochelle wastewater treatment plant and printed arc flash labels in compliance with NFPA.
- Assist Project manager with electrical design for Grand Central Terminal remodeling and installations using AutoCad Electrical.
- Assisted with commissioning of a new 13.8kV substation with emergency generators for a NYU Langone Healthcare facility. Assisted with building single line diagram for NYU Langone Healthcare Facility for normal and emergency service.

Power System Intern
Pterra Electrical Consulting, Albany, NY **Jun 2013 – Dec 2013**

- Successfully performed screening studies for introducing PV systems into the distribution grid for HECO, Hawaii.
- Developed One-Line Diagrams for HV and MV Distribution networks using GE-PSLF, ASPEN Distriview One-liner.
- Research on Publication titled "Load Rejection overvoltage issue on distributed generation projects" and Prepared Training modules for GE-PSLF, PYTHON etc.
- Voltage Analysis for West Point Transmission SRIS 1000MW HVDC NYISO Interface.

Research Assistant
CASP (Centre for Autonomous Solar Power), Binghamton, NY **Aug 2012 – Jun 2013**

- Successfully fabricated and tested solar cells using Chemical Spray Pyrolysis and Sputtering to form low cost solar cells.
- Aim to form a low cost nontoxic Solar Cell. Cells with CZTS, Ti, CdTe were used as the absorber layer.
- Successful performed Thermoelectric, Optical and many other analyses for Testing Cells.

Project Intern
LRDE (Electronics and Radar Development Establishment) **Jan 2010 – May 2010**

- Successfully Designed Automatic Testing Equipment that measures various electrical parameters.
- Developed model using Microcontrollers, sensors and ADC in model to measure with high accuracy and efficiency.

EDUCATION

MS in Electrical Engineering **Dec 2013**
State University of New York at Binghamton, GPA = 3.78

B.E in Electrical Engineering, **Jun 2010**
Visvesvaraya Technological University (India), Aggregate = 70%