

SUMMARY

First-year MS student in Electrical Engineering with specialization in power systems and two years of professional experience in power delivery, with skills in MATLAB, Mathematica, ATP, Aspen, GMAS. Seeking a co-op or internship from summer 2017.

EDUCATION

MS in Electrical Engineering | Michigan Technological University | Michigan, USA | Expected Spring 2018

BE in Electrical | University of Mumbai | Mumbai, India | 2010-2014 | GPA: 3.7

PROFESSIONAL ENGINEERING EXPERIENCE

Executive Engineer | VVF (India). Ltd | Navi Mumbai, India | July 2014 – June 2016

Installed, Tested and commissioned Electrical Equipment for a coal based heater to heat the thermic fluid (Load: 1.5 MW)

- Tested and commissioned Transformer (2.5MVA), circuit breaker, numerical relays, Cummins Diesel Generator (500KVA), Rectifier transformer (95KV/200mA), UPS (20KVA), MCC, Soft starter (150KW) and VFD (160KW)
- Tested and commissioned distributed control system and (Allen Bradley) PLC logic for motor operation
- Design of ground grid, selection of cable trays, sizing of motor cables, testing of batteries, commissioning of capacitor banks for power factor correction
- Managed a team of 50 contractors and 15 technicians and implemented IEEE, ISO 14001, 18001, ANSI and NEMA standards

Commissioned Energy Management System for monitoring, analysis and to optimize the performance of an electrical system

- Integrated parameters of energy meters to a remote computer for analysis and reporting purpose
- Generated energy report of feeders and scheduled dispatch of load
- Improved reliability by scheduling equipment maintenance
- Prepared a report on power quality and implemented filters to reduce harmonics in the system.

Daily Responsibilities:

- Operation and maintenance of 7.5 MW gas turbine power plant, 1600KVA KOHLER DG set, 22 KV substation
- Scheduled preventive maintenance, condition monitoring, and thermography for electrical equipment
- Compliance with EHS policy, use of SAP for billing and material procurement for project and maintenance activities

INTERNSHIP EXPERIENCE

Intern | Maharashtra State Electricity Transmission Company | Airoli, India | January 2014

- Analyzed power flow of the transmission system and tested transformers and switchgear
- Operated SCADA system for dispatch of load

Intern | SIEMENS LTD | June 2013

- Calculated harmonics generated by drives using Harmac software
- Commissioned SIEMENS drives for various motor applications

Intern | Enelek Power | December 2012 to February 2013

- Performed simulation and calculations for PV sizing in 'PVsyst' software
- Fabricated maximum power point tracking circuit for solar panels, programmed an autonomous robot to clean solar panels to improve efficiency, designed and fabricated solar charge controller circuit

ENGINEERING PROJECT EXPERIENCE

Control of Synchronous Machine for the Operation of Gas Turbine Power Plant | TATA Power | June 2013 – June 2014:

- Simulated and performed the control of synchronous machine (120 MW) using a static frequency converter
- Tested the static frequency converter and prepared test report
- Developed logic for operating one VFD for two motors and helped to double energy saving and cost

TECHNICAL SKILLS

Simulink | Power World | CYME | System Modeler | AMPL | PVsyst | Ladder Logic | AutoCAD | SAP | SIMARIS | MS Office

LEADERSHIP EXPERIENCE

- Club secretary 2015-16 at Rotaract club of Thane central
- Head of public relations at annual cultural festival RHYTHMS 2014 at ACPCE
- Community service director at Rotaract Club of Thane central during 2013-15
- Joint secretary 2014-15 at Rotaract club of Thane central