ASSOCIATE SOFTWARE ENGINEER

Summary

First-year Master of Science student in Electrical Engineering, specialization in Power Electronics and Renewable Energy with skills in MATLAB, AutoCAD, Circuit Design, C++ and UNIX seeking a co-op or internship from summer 2018.

Skills

- The Mathworks MATLAB C
- AutoCAD Electrical-CAD
- Circuit Design Microsoft Office Package
- C++ Windows
- UNIX Operations research

Experience

Associate Software Engineer 11/2016 to 08/2017 Ihs Markit Chicago

- Specialized in C++, UNIX and Software Project Management Technology.
- Played a significant role in resolving Auto-tickets and Manual tickets and became Point of Contact for these tickets.
- Involved in Automation of Back-end Shell scripts which resulted in improved reliability of the scripts.
- Played a major role in troubleshooting hadoop and database issues.

Research Intern 11/2015 to 03/2016 Just Capital New York

- Designed an intelligent relay for LT motor monitoring, control and to protect industrial LT motors from Thermal Overload, Unbalanced Supply, Stalling and Single Phasing employing adaptive control technology in the circuitry.
- Output of the operation is demonstrated for motor in running conditions in real time view with MATLAB simulations.

Summer Intern 06/2015 to 07/2015 Lockheed Martin Greenbelt

- Testing and Commissioning of Circuit Breakers.
- Learnt the operation, protection and testing of transformers at their manufacturing unit.

Trainee 06/2014 to 07/2014 Bunge

- A brief insight and training in coal handling and clear view on Power generation and distribution system, the Auxiliary systems and modern control instrumentation (SCADA).
- Worked on a project of Waste Heat Recovery Power.
- Engineering Projects 1) Intelligent Substations for Smart-Grid Renewable Energy | National Conference on Advances in Electrical and Electronics Engineering 2015 | February 2015 This project mainly focuses on next generation intelligence systems in substation via smart intelligent electronic devices (IED) to bring more renewable energy into the electrical distribution system 2) Low-cost Single Phase Solar Inverter | Students Research Competition by Renault Nissan and DELL | February 2014 Designed a 1-phase solar inverter topology with Solar cell, DC-DC boost converters and sine wave push-pull inverter using two MOSFETs.Simulation results are taken with the help of PSIM software.

Education and Training

Master of Science : Electrical Engineering [Power Electronics and Renewable Energy 2019 University of Colorado City , State , USA Electrical Engineering [Power Electronics and Renewable Energy

Bachelor of Engineering : Electrical and Electronics Engineering 2016 Anna University City , India Electrical and Electronics Engineering 3.40

Activities and Honors

Organizer for cultural events, Sri Venkateswara College Of Engineering. Core member of Rotaract Club and Indian Society for Technical Education.

Publications

3) Foot Step Power Generation Using Piezoelectric Material | PULSE'13 - A National Level Symposium | August 2013 Generate electricity utilizing the waste energy generated during human locomotion using piezoelectric sensor. The pressure and vibrations produced during human walk or run is captured by the piezoelectric sensors and converted into electric power. Publications 1) Control Techniques and Low-Cost PMSG Design for Small Wind Power Generation Plant Design of low cost power converter for small scale wind turbine systems using PMSG. Aim of this paper is to achieve high efficiency using minimum number of switches. The control strategy is implemented and validated using PSIM software. Published in International Journal of Scientific Research in Science, Engineering and Technology, ISSN: 2395-4099, Volume 2, Issue 5, September-October-2016. 2) Road Generative System- A Path to Future Energy This paper aims to produce electricity with the help of roads, hot water and thermo-electric pipes which results in zero emission in all forms of pollution. Published in International Journal of Engineering Sciences and Research Technology, ISSN: 2277-9655, Volume5, Issue 10, October- 2016. 3) Economic methods for rural electrification and its future ahead The scope of this paper is to present cost effective electrification methods, as a result to increase the attractiveness and awareness of grid extension to rural populations. This paper is currently under review at Elsevier - International Journal of Electrical Power and Energy Systems. Leadership Skills Office Bearer of Association of Electrical and Electronics Engineer (AEEE). Organized a Guest lecture on "Alternative Energy" and conducted a Workshop on "Electrical Safety".

Skills

AutoCAD, Automation, C, C++, CAD, Circuit Design, database, DC, DELL, Electronics, Engineering Projects, MATLAB, Microsoft Office Package, Windows, next, Power generation, Project Management, real time, Research, SCADA, scripts, Shell scripts, Simulation, transformers,

troubleshooting, UNIX, view