

Susruthreddy Busireddy

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EDUCATION

Syracuse University, USA, M.S., Energy Systems Engineering GPA: 3.545 Expected May 2018
Courses: Sustainability Driven Enterprise, Engineering Economics & Technology Valuation, Materials for Energy Systems, Energy Conversion, Distribution, Generation and Intergration in Smart Grids

Visvesvaraya Technological University, India, B.E., Electrical and Electronics Engineering GPA: 4 July 2016
Courses: Solar Energy, Renewable Energy Sources, Energy Auditing and Demand Side Management

SKILLS

Functional: Leadership, Analytical Skills, Electrical Engineering, Sustainability Expert, Energy Engineering

Software and Programming: Python (Basic), C, C++ (Basic), Java (Basic), MATLAB, PowerWorld, PSS®E, AutoCAD, OrCAD PSpice, SAP, MS Office, Precision tree, @Risk, DesignBuilder

Spoken Languages: English, Telugu, Hindi, Kannada, Sanskrit, German-Basic, Mandarin-Basic, Spanish-Basic

CERTIFICATIONS

The Certificate of Advanced Study in Sustainable Enterprise (CASSE), Whitman School of Management, Syracuse, NY.
The CASSE integrates business, science, engineering, policy, and practice, taking a transdisciplinary approach to sustainable enterprise May 2018

Lean Six Sigma (Yellow Belt), MSME Technology Development Centre-Ministry of Micro, Small and Medium Enterprises, Government of India Organization May 2015

RESEARCH EXPERIENCE

The Hosein Research Group - Syracuse University, USA Jan 2017 to Jun 2017

- Produced solid lithium ion embedded cross-linked samples of Polytetrahydrofuran through photo curing
- Created a futuristic separator for fuel cells, which is a better conductor and is much thinner

INTERNSHIP EXPERIENCE

SparkCharge, Syracuse, USA

Embedded Systems Engineer Jul 2017 to Sep 2017

- Created the first portable fast modular charging station battery backup for an electrical vehicle
- Created a fully controllable system, with a range of 100 miles and charge speeds of level 3

Wipro and CSTEP (Centre for Study of Science, Technology & Policy), Bangalore, India

Research Engineer Intern Jul 2015 to Sep 2015

- Researched and collaborated with scientists on 'Performance analysis of PV cells' under Solar Energy Research Institute for India and the United States (SERIUS)
- Created a mathematical model of PV cells to find their performance and design characteristics with fixed panels, single axis tracking with tilt and single axis tracking without tilt

PROJECTS

Sustainability Consultant, United Nation Global Compact, New York, USA Spring 2018

- Researched on emerging trends in automation, and their impacts on futuristic supply chain labour practices
- Identified opportunities and obstacles for businesses in proactively engaging their supply chain on these trends
- Presented at 'Decent Work in Global Supply Chain Action Platform', SAP Leonardo Center, New York

Energy Balance of a Low Energy House, Syracuse, NY, USA Fall 2017

- Modelled and Simulated a low energy house with Solar Energy at Vilnius, Lithuania using DesignBuilder

Energy Crisis Solution using Renewable Energy, Syracuse, NY, USA Fall 2017

- Modelled a Power World solution for any future energy crisis with a payback time of 1.25 years

Project S, Self initiative project funded by Wipro and ELECRAMA Spring 2016

- Designed and developed a 250W solar power plant and created a new system design to increase the efficiency of a solar Photovoltaic system using an auxiliary reflector system

SELECT ACHIEVEMENTS

- Wipro Earthian 2014: won \$2,300/- that was awarded at the Institutional level
- Gold medal winner on personality development contest
- Academic Program Senator, Supervisor of Carrier Dome, and Multidisciplinary Research committee, SU