

Sidharth Ashok (Sid)

2466 N Oakland Ave Apt # 227, Milwaukee, WI-53211

• Phone: 414-286-1227

• sashok@uwm.edu

OBJECTIVE:

Seeking a full time opportunity in the Utility Transmission and Distribution Engineering field, with particular emphasis on load flow, substation protection and control aspects, microgrids.

AREAS OF INTEREST:

Power Systems, AC and DC Machines, Fault Analysis, Protection Systems, Control Systems, Wind Turbine modeling

EDUCATION:

M.S. in Electrical Engineering <i>University of Wisconsin-Milwaukee, Current GPA of 4.0/4.0</i>	Dec 2013(Expected Graduation)
B.S. Study Abroad Degree in Electrical Engineering <i>University of Wisconsin-Milwaukee, GPA of 3.6/4.0</i>	Spring 2012
B.Tech Degree in Electrical and Electronics Engineering <i>SASTRA University, India, GPA of 8.4/10</i>	2008-2012

SKILLS:

Software: Aspen, C, MATLAB-Simulink, PSpice, Visio, Ansys-Simplorer, SEL Quickset, TESLA 3000, CYMDIST
Hardware: AVR-Atmega Controller, FPGA-LabView (basic), PCB Fabrication, Industrial Machine trainer

EXPERIENCE:

National Grid, Waltham, MA (May 2013 to Present):

Intern: Policy and Support group, Protection & Telecom Engineering:

- Evaluated fault currents for circuit breaker replacement program using Aspen
- Assisted in the relay settings of SEL 351 and SEL 387 for transformers using Aspen, SEL Quickset, MathCad and relay design brief (RDB)
- Remodeled and calculated transformer and cable impedances, relay curves in Aspen
- Investigated and issued relay settings for protection elements in substations using coordination studies
- Identified improper schemes and implemented corrective actions through disturbance analysis using SEL software
- Created disturbance monitoring equipment (DME) surveys using fault records from TESLA configurations, one-line diagrams, relay metering and event channel prints, with NERC standards

Microgrid Project (September 2012- Present):

- Designed the schematic of smart microgrids at Energy Lab, USR, UW-Milwaukee, using Microsoft Visio
- Engineered microgrid models by identifying weak nodes of Load flow studies in MATLAB
- Implemented protection schemes for microgrid components consisting of solar panels, wind turbine, active and passive loads, circuit breakers, static switches by performing fault analysis (Ongoing Microgrid Research)

Industrial Assessment Center (IAC-April 2012- May 2013):

- Represented U.S Department of Energy sponsored program IAC as a Project engineer
- Skills learned were team work, interdisciplinary equipment testing and training, energy auditing

Implementation of an Innovative Integrated Solar Panel Project (January 2010- June 2011):

- Built a photovoltaic system with higher efficiency over existing technology using Fresnel lens
- Proposed an innovative algorithm for tracking sunlight using MATLAB-Simulink
- Tested the Atmega series controllers for the dual axis solar tracker with closed loop feedback control

AWARDS AND ACHEIVEMENTS:

- Ranked top 15% in class standing for Fall 2012 and invited to join Golden Key International Honour Society
- Recipient of Graduate Teaching Assistantship award from Spring 2013.
- Recipient of Graduate Student Chancellor Award and full tuition fee waiver for Fall 2012
- Won cash prize of \$2000 for Integrated Solar system Product at Project competition, ELECRAMA 2010
- Team Leader at the UWM Poster competition on Electromechanical Separation methods

EMPLOYMENT:

Intern- Policy and Support, Protection Engineering, National Grid, Waltham, MA	May 2013 to Present
Teaching Assistant-Electromechanical and Machines Lab, UW-Milwaukee	Spring 2013
Project Engineer at IAC Energy Audit Center, UW-Milwaukee	Spring 2012 to May 2013