Michael Szymkowski

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PERSONAL WEBSITE

On my personal website, you will find my projects, coding, photos from competitions and some other personal work. The primary goal is for you to get to know me better on a personal and professional level. It can be accessed at http://www.buffalo.edu/~MJSZYMKO

EDUCATION

University at Buffalo, The State University of New York (Honors College) May 2017
Bachelor of Science in Electrical Engineering, minor in Computer Science **GPA: 3.978 / 4.00**
ENSEA, Study Abroad Exchange Program, Cergy-Pontoise, France, January 2016 – May 2016

WORK EXPERIENCE

General Mills, Manufacturing and Engineering Associate, Buffalo, NY July 2017 – present
General Mills, Controls Engineer Intern, Buffalo, NY January 2017 – May 2017

- Planning and design of a capital project involving MCC (Motor Control Center) upgrade
- Completed plant technical onboarding for full time role, which involved extensive training on machinery, supply chain operations, and plant control systems.

General Mills, Manufacturing and Engineering Associate Intern. Wellston, OH June 2016 – August 2016

- Developed and implemented downtime tracking in a distribution center with 8 palletizers and trained ~16 operators
- Developed production dashboards utilizing PLC programming and reliability metrics from a factory server
- Implemented a mechanical improvement and programmed vision systems in packaging area to increase reliability
- Updated and field verified PLC electrical drawings as part of a recent upgrade
- Presented projects and achievements to company leaders at corporate headquarters

DuPont, Manufacturing Technology Engineer Intern, Tonawanda, NY May 2015 – August 2015

- Worked on design / implementation of a control strategy purposed to protect a distillation column from manual operator error.
- Participated in a Process Hazards Analysis which included updating and field verifying P&ID's
- Effectively implemented small facility changes in accordance with Process Safety Management procedures
- Worked on the startup of a mix tank project which included debugging of PLC, motor drives, and safety relays

Buffalo Sabres, Data Analyst Intern, Buffalo, NY December 2014 – May 2015

- Developed software to obtain/organize hockey stats and automate the analysis of sensor data on co-operative team of 4.

SKILLS

Programs: Matlab, C++, Java, Wonderware, RSLogix 500/5000, Linux OS, Microsoft Office, Multisim, ARM and MIPS processors
Industrial: P&ID's, Process Instrumentation, Process Safety Management, DCS, Chemical/Food Processing

PROJECTS

IEEE MicroMouse Project, September 2013 - April 2017

- Designed and constructed an autonomous maze-solving robot with a team of 8 for a regional competition
- Developed the motor control functionality, an error correction scheme, and a sensor array for the robot. Mentor in 2017.

National Grid - Design of a Transmission and Distribution Lab, January 2017 – May 2017

- Develop electrical plan for training center on Northland Ave working with National Grid engineers and ECC renewable energy center. Gained proficiency in micro-grid planning and renewable energy resources. Presented work at a Senior Design Expo.

LEADERSHIP ACTIVITIES

University at Buffalo, Buffalo, NY
Engineering Teaching Assistant August 2016 – December 2016

- Chosen for a paid teaching assistantship involving teaching 2 recitations, grade assignments, and coach student leaders. Earned this position by serving as a student leader and a grader for 2 years prior. Also served as an electronics lab assistant.

IEEE Student Chapter September 2013-December 2015

- Participated in BattleBot, MicroMouse, hardware workshops, regional conferences, and outreach events.
- Served as the treasurer from May 2015 to December 2015 - managed budget, fundraiser, club meetings and events.

Volunteer, Westminster Charter School February 2015 – December 2015

- Instructed elementary age students on science projects once per month as part of a university initiative, and have served as a classroom leader since September 2015. Volunteered at Science is Elementary weeklong program at UB in January 2017.

HONORS AND AWARDS

Highest Sophomore Grade Point Average, Department of Electrical Engineering, awarded September 2015
Highest Junior Grade Point Average, Department of Electrical Engineering, awarded April 2017
IEEE Region One Conference, 3rd Place MicroMouse Competition (April 2015), 2nd Place MicroMouse Competition, (April 2014)
Tau Beta Pi, Engineering Honors Society, inducted November 2016
Eta Kappa Nu, Electrical Engineering Honors Society, inducted May 2017