Marisa R. Witcpalek

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OBJECTIVE Seeking a full time position in Electrical Engineering with an emphasis on analog circuit design

EDUCATION

University of Michigan **Degree – expected December 2016**
Major – Electrical Engineering
Minor – Multidisciplinary Design
GPA: 3.838/4.0
Relevant Courses: Electronic Circuits (215), Intro to Logic Design (270), Signals and Systems (216), Semiconductor Devices (320), Electromagnetics (230), Analog Circuits (311), Digital Circuits (312), Control Systems (460), Integrated Microsystems Lab (425)

EXPERIENCE

Delphi, Auburn Hills, MI **May 2015 – August 2015**
- Created test circuitry from schematic to evaluate effects on sensor performance
- Collected and analyzed data about impedance trends over sensor lifetime
- Managed multiple concurrent projects
- Built and troubleshot a mechanical test setup for oxygen sensors, multi-summer project

Delphi, Auburn Hills, MI **May 2014 – August 2014**
- Created a new mechanical test setup for oxygen sensors
- Reduced costs by making an in-house version of an external test
- Coordinated design and construction of many pieces of a project
- Proposed solutions to problems encountered

Delphi, Auburn Hills, MI **July 2013 – August 2013**
- Implemented MATLAB and wrote a script to analyze and graph data
- Fabricated hardware to simulate sensors to be used to test software
- Created documentation for several different projects

ACTIVITIES

UM::Autonomy, *RoboBoat*, Engineering Team, Ann Arbor, MI **September 2013 – present**
- Designed, built and tested the electrical system of an autonomous boat
- Designed and fabricated a custom PCB
- Debug problems and propose solutions to be implemented on future boats
- Coordinated projects and train teammates
- Leadership Positions: *President* (2015-2016) and *Electrical Team Lead* (2014-2015)

FIRST Robotics, Student Team, Lake Orion, MI **September 2009 – June 2013**
- Designed, built and tested 4 robots to complete different challenges
- Mentored new team members about the electronics on the robot
- Coordinated electrical team efforts as a *sub-team leader* for 3 years
- Learned about engineering, led me to choose my major

SKILLS

Electrical: Soldering (through-hole and surface mount), Schematic reading
Software: Familiar with: Cadence, MATLAB, C++, Multisim, Quartus, Proficient: Microsoft office

AWARDS

Dean's List **Fall 2013 – present**
Stryker Scholarship **2015**
Reynolds Scholarship Electrical Engineering Department **Fall 2014**
Raytheon FIRST Robotics Scholarship **2014**