MICHAEL SIKORA

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EDUCATION

University of Maryland, College Park
Bachelor of Science, Mechanical Engineering (2014)
Dean's List | Fall 2013
Cumulative GPA | 3.1

400 LEVEL COURSES

Mechanical Design of Electronic Systems
Control Systems and Optimization
Product Engineering and Manufacturing
Integrated Product and Process Development
Mircoelectromechanical Systems (MEMS)
Computer-Aided Design

WORK EXPERIENCE

UMD CECD Lab: Mechanical Engineer — Feb 2014 to Present
- Research position focusing on assistive robotics for the blind.
- Interpreting sensor data using C++ in a Linux environment.

AP Ventures: Web Developer — May 2013 to Oct 2013
- Developed online courses for Maryland's STEM program.
- Used HTML, CSS, and Jquery to impliment an interactive design.

S&V Development: Co-Founder — May 2012 to Sep 2012
- My first serious buisness venture with software development.
- Developed Android applications and an online educational resource for young UMD engineering students.

SOFTWARE

MATLAB SIMULINK
Solidworks Inventor
PTC CREO Eclipse
The Adobe Suite

CODE

HTML5 CSS3 Jquery
Ruby on Rails C++
Arduino C Android

ENGINEERING PROJECTS

Capstone Project: The Lacrosse Sidekick — Fall 2013
- Designed, benchmarked, and prototyped an autonomous return device for lacrosse practices, the prototype was presented at the UMD design showcase. I personally coordinated the design. Additional responsibilities included CAD, presentations, and technical writing.

DeWalt Power Tool Redesign — Spring 2013
- Wrote a 130 page benchmark report on a DeWalt screw gun comparing performance and costs to competitors. Redesigned the DeWalt to operate more efficiently during withdrawal tasks. Modeled and 3D printed a prototype which was presented to a board of DeWalt engineers.

Drug Delivery System — Fall 2012
- Simulated a magnetized particle traveling through a blood vessel and attracted to an infected area by a magnetic field, using MATLAB. Used dimensionless analysis to account for scaling between models.