Adam Cordingley

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Education

2016 – Present **Case Western Reserve University (CWRU)**, Cleveland, OH
Sophomore, Electrical Engineering - Gpa: 2.714

Aug 2015 – May 2016 **Marshall University**, Huntington, WV
Part-time student - CS & Calculus II courses

2012 – 2016 **Huntington High School**, Huntington, WV - *High School Diploma*

Experience

June 2018 – Aug. 2018 **Electrical Engineering Intern**
Bird Technologies, Inc. - Solon, OH
Did R&D for an RF power measuring calorimeter. Worked with embedded systems, digital interfacing, and control processes. Worked some with PCB design.

Aug. 2016– Present **Web Support Staff**
Case Western Reserve Univ. - Cleveland, OH
I work part time during the school year for Case Western's Web Support Dev Ops Integration team. I train staff in using the Drupal content management system & provide university-website-related support.

Aug. 2016– Present **Electrical Hardware Lead**
CWRU Robotics Club (CWRUbotix)
Member of CWRU's undergraduate multi-project robotics club. In 2016-17 I was on the National Robotics Challenge Maze-robot sub-team. In April 2017 was elected Lab & Safety Manager. For the 2018-19 season, I'm the Electrical Hardware Lead for the NASA Robotic Mining Challenge sub-team.

2015-2016 **Research Assistant**
Marshall University - Huntington, WV
Worked For Dr. Mike Norton at the Marshall Univ. Chemistry Department full time during the summer & part-time during the fall & spring semesters. I primarily worked with designing and fabricating parts (usually with FDM 3D printing) for use in research. I self-taught myself SolidWorks and learned to use NIH ImageJ. I also worked with Scanning Electron Microscopy (SEM) and Atomic Force Microscopy (AFM).

July 2017 & July 2016 **Youth Robotics Camp Instructor**
WV Summer Science Adventures, Marshall Univ. (ssawv.com)
I planned, organized, and led a one week Vex robotics day camp intended for junior high & high school students.

Skills & Certifications

SOLIDWORKS® Certified Associate - Mechanical Design (CSWA) - *December 2017*

Amateur Radio Operator, Technician Class (Callsign: KE8ITF) - *February 2018*

Software & Languages:

Proficient: Windows, Microsoft Office, NIH ImageJ, Google Apps
Python, Java, HTML, CSS, RobotC, Arduino C
Working Knowledge: Linux, Altium, Eagle CAD, Eclipse, Multisim, Linux Bash, Javascript, PHP, C/C++, LaTeX

Other:

- FDM 3D printing
- Circuit design, implementation, and debugging
- Scrum / Agile methodology
- Laser Cutting
- Basic Web Design

Relevant Coursework

- Electronic Circuits
- Logic Design & Computer Organization
- Python & Java (Marshall Univ.)
- Intro to Circuits & Instrumentation
- Intro to Programming in Java

Other Interests & Activities

- **Circuits:** I enjoy building circuits, machines, & electrical devices as a hobby & as part of my involvement in CWRUbotix. Some examples of things I've built for fun are a digital optical tachometer, a disk sander for woodworking, and a circuit for sampling ultrasonic TOF distance sensors by analog means.
- **Vex Robotics:** In 10th grade I co-founded my high school's Vex robotics competition team (team 8768A). Since then I've organized & run youth Vex robotics summer camps. I also volunteer at Vex competitions when I can.
- **Woodworking**