ANDREW WOERPEL

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PROFILE / OBJECTIVE

Highly motivated, hardworking, and technically diverse Electrical Engineering student seeking a full time engineering position at SpaceX beginning in January of 2018.

EDUCATION

University of Wisconsin - Platteville Platteville, WI   Anticipated Graduation: December 2017
College of Engineering, Mathematics, and Science
Major: Electrical Engineering, Digital Electronics Emphasis, Control Systems Emphasis   GPA: 3.86/4.00
Minor: Computer Science

RELEVANT COURSEWORK

Modern Controls   Analog Electronics   Computer Architecture and Operating Systems
Microcomputer Architecture & Interfacing   Intro to Microprocessors   Object Oriented Programming & Data Structures

INTERNSHIP EXPERIENCE

SpaceX Cape Canaveral, FL   Fall 2016, Summer 2017
Launch Intern
- Developed, modified, troubleshot, and oversaw construction of Electrical Ground Support Equipment for the construction of Launch Complex 39a.
- Supported four launch campaigns
- Developed software tools for common tasks related to pad Command and Control systems using Python.

Rockwell Collins Cedar Rapids, IA   Summer 2016
Software Engineering Intern
- Developed and tested maintenance software for the Boeing 777x airliner using Simulink, MATLAB, C, and Python.

Orbital Technologies Corporation (ORBITEC) Madison, WI   Fall 2015
Electrical Engineering Co-op
- Developed cable assemblies, test procedures, assembled/troubleshot hardware, and assisted with procurement for micro-gravity greenhouses.
- Upgraded NASA greenhouse systems to more closely match the "Veggie" greenhouse on the ISS.
- Developed software to accelerate the conversion of electrical component libraries from DxDesigner to Altium Designer.

Plexus Corporation Neenah, WI   Summer 2015
Software/Product Engineering Intern
- Worked with a team to develop and maintain an 80,000 line C++ code base and corresponding test procedures for continuous integration platforms on a large medical project.
- Developed a pneumatically actuated misuse test fixture for engineering confidence testing.

Seljan Company Lake Mills, WI   Summer 2013 - Winter 2014
Mechanical Design Intern
- Established a batch powder coating system from the ground up. The total project cost was approximately $50,000.
- Suggested, designed, and constructed conveyor systems for metal stamping slug removal. System cost was approximately $2500 while equivalent commercially available systems cost in excess of $10,000.

TECHNICAL / ENGINEERING SKILLS

- Programming experience with Python, C/C++, Java, MATLAB, Verilog, Simulink, and assembly
- Networking, Frontend/Backend (Django) web application development, Amazon Web Services
- Experience designing, building, and troubleshooting data acquisition circuitry and software
- Circuit/PCB design and construction
- Excellent with hands on tasks such as fabrication and troubleshooting

MEMBERSHIPS / AFFILIATIONS

- Eagle Scout, Boy Scouts of America   2001 - 2012
- Society of Automotive Engineers - Aero Design Team   Fall 2014 - 2015
- Peer-Assisted Leader (Tutoring program for an entire class)   Spring 2014