Andrew Woerpel

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| 920-988-5872 | woerpela@uwplatt.edu |

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

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| 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

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| * 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 |