

# ANDREW WOERPEL

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## PROFILE / OBJECTIVE

Highly motivated, hardworking, and technically diverse senior Electrical Engineering student seeking an internship position at the Cape Canaveral or McGregor sites during the summer of 2016. Strong desire to work on demanding and complex tasks that will help to enable the human colonization of space.

## EDUCATION

**University of Wisconsin - Platteville**, Platteville, WI

Anticipated Graduation: May 2017

College of Engineering, Mathematics, and Science

Major: Electrical Engineering, Emphasizing in Control Systems and Digital Electronics - GPA: 3.88/4.00

Minor: Mathematics

## RELEVANT COURSEWORK

Automatic Controls  
Programming in C ++

Signals and Systems  
Logic and Digital Design

Analog Electronics  
Circuit Modeling I & II

## INTERNSHIP EXPERIENCE

**Orbital Technologies Corporation (ORBITEC)** Madison, WI

Fall 2015 – Winter 2016 (Ongoing)

*Electrical Engineering Co-op*

- Developed cable assemblies, detailed subsystem test procedures, assembled/troubleshoot hardware, and assisted with procurement for the next generation of micro-gravity greenhouses that will fly aboard the International Space Station in late 2016.
- Upgraded legacy greenhouse systems to match the Veggie unit which is currently demonstrating food production capabilities for astronauts on orbit.
- Assisted component librarian with component creation, schematic modification, and PCB layout in Altium.

**Plexus Corporation** Neenah, WI

Summer 2015

*Software/Product Engineering Intern*

- Worked with a team to develop and maintained an 80,000 line C++ code base and corresponding test procedures for continuous integration/hardware-in-the-loop 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 2015

*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

- Laboratory experience with thin film deposition through thermal evaporation, reactive ion etching, scanning electron microscopy, and profilometers from undergraduate research in Microsystems & Nanotechnology
- Self-taught computer programming skills in Python, C++, and MATLAB
- Proficient in SOLIDWORKS 3D modeling software
- Experience designing, building, and troubleshooting basic data acquisition circuitry and software
- Excellent with hands on task such as fabrication and troubleshooting
- Experience with rapid prototyping using 3D printers

## MEMBERSHIPS / AFFILIATIONS

- Eagle Scout, Boy Scouts of America 2001 - 2012
- Pole Vaulter, UW – Platteville Track and Field Fall 2012 – Winter 2013
- Society of Automotive Engineers - Aero Design Team Fall 2014 – Present
- Peer-Assisted Leader (Tutoring program for an entire class) Spring 2014
- Elec. & Software Team Lead, rLoop - SpaceX Hyperloop Design Competition Summer 2015 - Present