

# Andrew J. Zeller

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Experienced student leader seeking full-time opportunities in digital and physical product design

## EDUCATION:

The University of Alabama, Tuscaloosa, AL

August 2017 (Expected)

California Polytechnic State University, San Luis Obispo, CA

National Student Exchange Program – Fall 2016

**Major:** Bachelor of Science, Mechanical Engineering **GPA:** 4.0 / 4.0

## WORK EXPERIENCE:

**Mechanical Engineering Intern, Fetch Robotics;** San Jose, CA

May 2016 – September 2016

- Managed development of conveyor add-on product to extend capabilities of Fetch’s mobile robot system
- Designed complete model in SolidWorks, produced drawings for fabrication, and wrote production SOPs
- Designed user-onboarding process for robot fleet management UI using Adobe Creative Cloud

**Engineering Intern, Trek Bicycle;** Waterloo, WI

September 2015 - December 2015

- Supported pro team and road bike development group using SolidWorks, CNC Machining, and 3D Printing
- Performed motion tracking in ProAnalyst for brake performance testing and analysis
- Designed and fabricated fixtures and tooling for production machining processes

**Mechanical Engineering Intern, Fetch Robotics;** San Jose, CA

May 2015 – August 2015

- Led effort to research, design, and test new vacuum gripper system
- Interacted with component suppliers, created CAD models in SolidWorks, and 3D-printed prototypes
- Designed and produced internal tools for production and testing

**Resident Advisor, UA Housing & Residential Communities;** Tuscaloosa, AL

August 2014 – April 2015

- Served as a resource, role model, and leader for 80 residents on floor while maintaining a safe environment

**Mechanical Engineering Intern, Paper Converting Machine Co;** Green Bay, WI

May 2014 – July 2014

- Designed production parts and improved current embosser subsystem design using SolidWorks
- Compiled and analyzed deflection data to validate and improve current design calculators
- Provided mechanical support for bench testing machine redesign

## ACTIVITIES:

**Module Design Lead, Alabama Astrobotics NASA Robotic Mining Team**

August 2013 – May 2015

- Led team to design and construct drivetrain and digging module subsystems using SolidWorks
- Worked with machine shop and 3D printing lab to fabricate custom parts
- Direct contribution to 2015 national champion performance

**Stakeholder Management Lead, UA EcoCar 3 Team**

January 2015 – April 2015

- Led small team to engage stakeholders by improving communications processes

**Member, University of Alabama Club Triathlon Team**

August 2014 – May 2016

- Podium finisher at 6 races, competed at 2015 & 2016 Collegiate Nationals

## SKILLS:

- **Design:** SolidWorks | Autodesk Inventor | Javascript | HTML5 | CSS3 | Adobe Photoshop, Illustrator & InDesign
- **Analysis:** SolidWorks Simulation | MATLAB | MSC Adams | ProAnalyst
- **Shop Experience & Design for Manufacturability** involving sheet metal, CNC machining, and 3D printing

## AWARDS:

- **Scholarships:** UA Presidential & Engineering Leadership, ASME William B. Sanford, Alabama Space Grant Consortium, Raytheon / FIRST Robotics (3 years), Society of Manufacturing Engineers Panse & E. Wayne Kay, International Society of Automation Huston Endowment & Fox River Valley Section, Kiwanis Club Green Bay
- **Outstanding Mechanical Engineering Sophomore** UA Department of Mechanical Engineering (April 2015)
- **NASA Technology Transfer University** 1<sup>st</sup> Place UA Innovation Project (April 2015)
- **NASA Robotic Mining Competition** 1<sup>st</sup> Place Overall - Joe Kosmo Award for Excellence (May 2015)
- **Area Coordinator’s Choice Award** UA Housing & Residential Communities (March 2015)