

Andrew J. Zeller

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Experienced student leader interested in connecting the digital and physical world through design

EDUCATION:

The University of Alabama, Tuscaloosa, AL

May 2017 (Expected)

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

WORK EXPERIENCE:

Engineering Intern, Trek Bicycle; Waterloo, WI

September 2015 - December 2015

- Utilized SolidWorks, CNC Machining, and 3D Printing to support pro team and road bike development group
- 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

- Enhanced on-campus living experience for 80 residents on floor by maintaining a safe environment and serving as a resource, role model, and leader

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 – Present

- 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

Secretary, UA Chapter of ASME

August 2014 – April 2015

Member, University of Alabama Club Triathlon Team

August 2014 – Present

- 2015 La Grange Sprint Triathlon 2nd Place Collegiate Male, 2014 Powerman Alabama Duathlon 2nd Place Male

SKILLS:

- **Software:** MATLAB | SolidWorks | Autodesk Inventor | Adobe Creative Suite | HTML5 | CSS3
- **FEA and Design for Manufacturability** involving machining and 3D printing technologies

AWARDS:

- **Scholarships:** UA Presidential & Engineering Leadership (8 semesters), 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
- **NASA Technology Transfer University** 1st Place UA Innovation Project
- **NASA Robotic Mining Competition** 1st Place Overall - Joe Kosmo Award for Excellence
- **Area Coordinator's Choice Award** UA Housing & Residential Communities