

# Benjamin E. Ziemann

Student roboticist with diverse experience in software design and iterative prototyping

## Education

Olin College of  
Engineering  
2016-2020

- Robotics Engineering
- 3.91 GPA
- 4-Year, 50% Tuition Merit Scholarship

### Relevant Coursework

- User Oriented Collaborative Design
- Computational Robotics
- Software Design

## Skills

### Software

- Python
- Arduino
- Raspberry Pi
- Git
- Java

### Prototyping

- FDM 3D Printing
- Resin 3D Printing
- Solidworks
- Laser Cutting
- Basic Machine Shop

## Personal Info

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Portfolio: [zneb97.github.io](https://zneb97.github.io)

## Experience

### Olin College 3D Printing Space

Manager

Winter 2016-Present

- Maintain and repair FDM and resin 3D printers on campus
- Research and implement usability and safety improvements
- Train and assist students and faculty with CAD and 3D printing projects

### Weissman Collaboratory Foundry

Student Operator

Fall 2018-Present

- Research and implement solutions in the preparation and improvement of the various workspaces (wood shop, additive manufacturing, printing) for usability and safety
- Train and assist students on a variety of tools (wood shop, FDM/Resin printers, 3D scanner)
- Plan and host community events to improve community relations and promote the Foundry

### PaR Systems

Software Design Intern

Summer 2018

- Operate and program FANUC and Kuka brand robots for short pathing operations (>1 cycle/sec) in food and palletizing industries
- Developed vision based seam finding on boxes for use with robotic arm path planning

### Embue

Software Development Intern

Summer 2017

- Developed automatic window opener for integration with core product line
- Partnered with WPI Combustion Labs to collect and analyze sensor data or use in future product development

### Tire Profiles LLC

Software and Electrical Intern

Spring-Summer 2016

- Designed and built software and electrical systems for a working tradeshow piece showcasing TredSpec sensor line using Arduino and Raspberry Pi
- Collaborated long distance with mechanical intern to ensure efficient integration of sensors in tradeshow piece