Benjamin E. Ziemann

Student roboticist with diverse experience in software design and iterative prototyping

Education

Olin College of Engineering
2016-2020

- Robotics Engineering
- 3.90 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

Email: bziemann@olin.edu
Phone: 612-235-0615
Git: zneb97
LinkedIn: /in/bziemann
Portfolio: 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