

# Alexander G. Rhoads

<http://rhoadsa81.github.io>

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## OBJECTIVE:

Actively seeking an Aeronautical Engineering internship for the summer of 2018. Interest in research and development primarily.

## EDUCATION:

**The Ohio State University**, Columbus, Ohio.

B.S. in Aeronautical Engineering

Minor in Nuclear Engineering

Graduation: May 2019

Overall GPA (4.00 scale): 3.24

## TECHNICAL SKILLS:

**Software:** Linux, MATLAB, SOLIDWORKS, C++, HTML/CSS, Python (Selenium)

**Machining:** EDM, Laser Cutter, Waterjet, Metal/Wood Lathe, Shield-arc welding, Assortment of hand tools

**Relevant Coursework:** Circuits, Differential Equations, Thermodynamics, Thermal Hydraulic Fundamentals, Statics, Dynamics, Strength of Materials

**Other:** 3D printing, Microcontrollers, Aluminum Casting

## ENGINEERING EXPERIENCE:

### **PAS Technologies, Engineering Intern**

(40 hours per week) May 16 -Aug 16

- Communicated with supervisors and suppliers on a daily basis.
- Met with a machine supplier to provide PAS Technology with a more efficient machine.
- Monitored Creep feed grinder and Electric Discharge Machine (EDM) while first run parts were going through.
- Interpreted numerous technical documents so as manufacturing would run smoothly.

### **"Discovery Lab", Air Force Research Lab, Research Intern**

(40 hours per week) May 15 – Aug 15

- Collaborated with three other engineering interns to design and build two functioning products.
- Independently programmed the bridge inspection robot using: HTML, Python, and Linux.
- Communicated the technical progress/problems to superiors daily.
- Implemented rapid prototyping technology to make the initial designs. Laser cutters and 3D printers were used during this stage.
- Designed circuit board with EagleCAD, programmed with an Arduino Atmega chip.

### **Engineering Project**

April 14 – Present

#### *Delta 3D printer*

- Constructed a Delta 3D printer from scratch using parts purchased from McMaster Carr, Amazon, and Printbot
- Continually printing new and improved parts

## PROFESSIONAL & COMMUNITY ACHIEVEMENTS:

- Boy Scouts of America, Eagle Scout, December 2012
- Buckeye Boys State participant, 2014
- Dean's List, 2 terms