

# Alexander G. Rhoads

<http://rhoadsa81.github.io>

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## OBJECTIVE:

Actively seeking an Aeronautical Engineering internship for the summer of 2017. 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): 3.17

## TECHNICAL SKILLS:

**Software:** Linux, MATLAB, LabVIEW, SOLIDWORKS, C++, HTML/CSS

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

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

**Other:** 3D printing, Microcontrollers, Radio Frequency (Basic – side projects), Breadboard

## 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 from scratch, a working Delta 3D printer with a printing surface of 11”X11”x8”.
- In the process of improving print resolution by modifying various parts on the printer.

## PROFESSIONAL & COMMUNITY ACHIEVEMENTS:

- Boy Scouts of America, Eagle Scout, December 2012
- Buckeye Boys State participant, 2014