**Alexander G. Rhoads**

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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. Graduation: May 2019

B.S. in Aeronautical Engineering Overall GPA (4.00 scale): 3.24

Minor in Nuclear Engineering

**TECHNICAL SKILLS:**

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

**Machining:** EDM, Laser Cutter, Waterjet, Metal/Wood Lathe, Shield-arc wielding, 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:**

**The Ohio State University**  August 17 – Present

*Undergraduate Student Researcher*

* Currently developing an innovative Radioactive Dispersal Device detector

**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 where 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 Printrbot
* 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