

# Alexander G. Rhoads

[www.rhoadsa81.github.io](http://www.rhoadsa81.github.io)

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## EDUCATION:

The Ohio State University. Columbus, Ohio.

B.S. in Aeronautical Engineering– Graduation: May 2018

## TECHNICAL SKILLS:

Linux	MATLAB	LabVIEW	3D printing (Delta and XYZ)	SOLIDWORDS
JavaScript	HTML/CSS	Wood and Metal Shop Experience	Python	PHP

## Engineering Experience:

### Student Research Intern

May 15 – Aug 15

*"Discovery Lab", Air Force Research Lab, Wright-Patterson Air Force Base*

Dayton, Ohio

- Designed and built a Remotely Controlled Inspection (RCI) Robot to help with the bridge inspection process
- Programmed the RCI Robot in Linux using a variety of programming languages including HTML, PHP and JavaScript
- An AutoCAD rendition of the RCI robot was constructed using Solidworks and SolidEdge.

### Student Research Intern

May 15 – Aug 15

*"Discovery Lab", Air Force Research Lab, Wright-Patterson Air Force Base*

Dayton, Ohio

- Designed and printed a set of smart glasses (B!nkware) that alerts drivers if they become drowsy.
- B!nkware was designed in Solidworks and programmed in Arduino using an ATmega chip and a custom made circuit board.

### Engineering Project

April 2015

*FE Advanced Energy Vehicle (AEV) Competition*

Columbus, Ohio

- Built an AEV that competed in time trials with various constraints. AEV must be as efficient as possible.
- Designed and constructed an AEV that implemented a micro servo. With our unique design we were able to clinch Runner Up in the competition beating out 200 other teams.

### Engineering Project

April 2014

*Delta 3D printer*

Hillsboro, Ohio

- Constructed from scratch, built a working Delta 3D printer with a printing surface of 11"x11"x8".
- Increased print resolution by increasing resolution of all moving parts.

## PROFESSIONAL AND COMMUNITY ACHIEVEMENTS AND ACTIVITIES:

- Eagle Scout
- Buckeye Boys State participant
- Runner Up at Ohio States University Wide "Advanced Energy Vehicle" Competition