

Alexander G. Rhoads

<http://rhoadsa81.github.io>

rhoads.ag@gmail.com

(937) 466- 1239

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 (BI!nkware) that alerts drivers if they become drowsy.
- BI!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 Campus-Wide" Advanced Energy Vehicle Competition