

# Alexander Wolfgang Hoppe

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Prescott, AZ 86301

## Purpose

- Seeking to Intern in the field of Mechanical or Aerospace Engineering.

## Education

**Embry-Riddle Aeronautical University, Prescott AZ** fall 2017 – present

- Bachelor of Science in Mechanical Engineering (robotics)
- Minor - Computer Science
- 3.9 GPA

**Highline College, Des Moines WA** fall 2015 – spring 2017

- Associate of the Arts - Emphasis in Mathematics
- 3.82 GPA, graduated with honors and Honors Scholar Program participant

## Skills

### Leadership/Project Management

- Served many Leadership roles including *Structures System Lead* (EagleSat II), *System Manager* (Washington Aerospace Scholars), *Chairman's Presenter* (FIRST Robotics)

### Computer-Aided Design

- Skilled in the CAD programs *Solidworks* and *Autodesk Inventor*
- Experience: EagleSat II, Honors in Engineering Design at Highline College, FIRST team 3574, and numerous personal projects from quadcopters to small robots

### Programming/Software

- Adept in *MATLAB*, *C*, *C++*, and *HTML5/CSS* with experience in *Java* and *Python*
- Microsoft *Word*, *Excel*, *PowerPoint*, and *Publisher* and Google equivalents
- Professional Experience in Adobe *InDesign*, *Illustrator*, and *Photoshop*

### HAM Radio

- FCC certified amateur radio technician. Callsign: KG7YRP

## Experience

**Structures System Lead, EagleSat II** fall 2017 – present

- Responsible for the design, testing, and fabrication of EagleSat II's CubeSat structure and mounting hardware in addition to stress testing all payloads and subsystems.
- Coordinated team efforts and resources with EagleSat II leadership in conjunction with NASA's Space Grant Program.

**Summer Programs Coordinator, ERAU Summer Programs** summer 2018

- Represented Embry-Riddle while leading ERAU summer program attendees in activities around campus and providing support to externally contracted groups.

**Renaissance Student, FIRST Robotics Team 3574** fall 2014 – summer 2017

- Used CAD to design, fabricate, and assemble systems on roughly 150 lb. robots.
- Wrote and tested much of the code for autonomous and teleoperated operation of said robots and taught new students how to program in Java and Python.
- Represented the team as a presenter for the prestigious Chairman's award

**System Manager, Washington Aerospace Scholars** fall 2015 – summer 2016

- Led a team of high school students in the creation and presentation on a possible manned mission to Mars for distinguished engineers and scientists.

**Student Mentor, FIRST Lego League Team 17715** fall 2015 – spring 2016

- Mentored a group of young students (age 10 - 16) on the fundamentals of robotic design/programming and introduced them to the STEAM field.
- Led 3, 4-hour meetings every week for the 22-week season.