Alexander Wolfgang Hoppe

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Purpose

Seeking to become a Mechanical Engineering Intern.

Education

Embry-Riddle Aeronautical University, Prescott AZ

fall 2017 - spring 2021

- 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

- Experience with *Thermal Desktop* and *SolidWorks Simulation*
- Adept in MATLAB, C, C++, and HTML5/CSS with experience in Java and Python
- Microsoft Word, Excel, PowerPoint, and Publisher and Google equivalents

HAM Radio

FCC certified amateur radio technician. Callsign: KG7YRP

Experience

Structures System Lead, EagleSat II / NASA Space Grant

fall 2017 – present

- Responsible for the design, testing, and fabrication of EagleSat II's CubeSat structure hardware and thermal control capabilities.
- Manage team efforts and resources in conjunction with NASA's CubeSat directives.
- Selected as a NASA Arizona Space Grant Scholar for my work on Structural Design and Analysis through a competitive, merit-based application process.

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.