

Alexander Wolfgang Hoppe

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Summary

- 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 track
- Minor - Computer Science
- 3.93 GPA

Highline College, Des Moines WA Fall 2015 – Spring 2017

- Associate of the Arts - Emphasis in Mathematics
- 3.82 GPA, graduated with honors

Experience

Structures System Lead, EagleSat II / NASA Space Grant Fall 2017 – Present

- Designed, tested, and fabricated EagleSat II's CubeSat structure hardware and thermal control devices.
- 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 the university while leading summer program attendees around campus and providing support to externally contracted groups.

Student Mentor, FIRST Robotics Fall 2014 – Summer 2017

- Mentored groups of young students on the fundamentals of robotic design and programming in a competitive environment.
- Designed and fabricated electromechanical systems on competition robots. Wrote and tested code of said robots and taught new students how to program.

System Manager, Washington Aerospace Scholars Fall 2015 – Summer 2016

- Led a team of high school students in a NASA sponsored program in the creation and presentation on a possible manned mission to Mars.

Skills

CAD/Fabrication

- Solidworks
- Autodesk Inventor
- Waterjet/Laser Cutting
- 3D Printing

Simulation

- SolidWorks Simulation
- ANSYS Workbench
- Thermal Desktop

Programming/Software

- MATLAB
- C & C++
- Golang
- Microsoft Word
- Excel
- PowerPoint

Honors

- Embry-Riddle Presidential Scholarship
- College of Engineering - Dean's List (all semesters)
- 2017 AEC Design Competition Finalist