

Alexander Wolfgang Hoppe

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Prescott, AZ 86301

Summary

- Mechanical engineering student with a passion for robotics and electromechanical design seeking to become an Engineering intern.

Education

Embry-Riddle Aeronautical University, Prescott AZ Fall 2017 – Spring 2021

- Bachelor of Science in Mechanical Engineering, robotics track
- Minor - Computer Science
- 3.95 GPA

Highline College, Des Moines WA Fall 2015 – Spring 2017

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

Experience

Mechanical Engineer Co-Op, General Dynamics Mission Systems Spring 2019 – Present

- Developed electromechanical systems that operate in challenging environments while working in the Undersea and Telecom Systems division.
- Supported a variety of programs while running the site's rapid prototyping lab.

Structures System Lead, EagleSat II / NASA Space Grant Fall 2017 – Summer 2019

- 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.

Skills

CAD/Fabrication

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

Simulation/FEA

- 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