

Alexander Wolfgang Hoppe

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Prescott, AZ 86301

Summary

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

Education

Embry-Riddle Aeronautical University, Prescott AZ Fall 2017 – Spring 2022

- Bachelor of Science in Mechanical Engineering, Robotics track
- Minor in Computer Science
- 3.95 / 4.00 GPA

Highline College, Des Moines WA Fall 2015 – Spring 2017

- Associate of the Arts with Emphasis in Mathematics
- 3.82 / 4.00 GPA, graduated with honors

Experience

Mech. Engineer Co-Op, General Dynamics Mission Systems Spring 2019 – Winter 2019

- Developed electromechanical systems that operate in challenging environments while working in the Undersea and Telecom Systems division.
- Ran a 3D printing lab while gaining extensive experience operating and maintaining FDM printers.

Structures & System Coordinator, NASA Space Grant Fall 2017 – Spring 2020

- 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.
- Mentored students in a fast pace, "real-world" engineering environment.

Teacher's Assistant (MatLab), ERAU College of Engineering Spring 2019, Spring 2020

- Tutored students in beginning to advance MatLab techniques during class periods and graded assignments to help students identify areas in need of improvement.

Summer Programs Coordinator, ERAU Summer Programs Summer 2018

- Represented the university while leading summer program attendees about campus.

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.

Skills

CAD / Fabrication

- Solidworks
- Autodesk Inventor

Simulation / FEA

- SolidWorks Simulation
- ANSYS Workbench

Programming / Software

- MATLAB
- C & C++

- 3D Printing
- Waterjet/Laser Cutting

- Thermal Desktop

- Microsoft Word, Excel, Powerpoint
- HTML/CSS

Honors

- ΦΚΦ Honnor Society Member
- ERAU Presidential Scholarship
- CoE Dean's List (all semesters)
- 2019 NASA Space Grant Scholar
- 2017 AEC Design Competition Finalist