

Alexander Wolfgang Hoppe

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Prescott, AZ 86305

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
- 3.96 / 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

Mechanical Engineer Intern, Loon Spring 2020 – Present

- Developed mechanical assemblies and test devices for the Loon balloon system to expand connectivity in underserved communities.

Integration Lead, 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.
- 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.

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

Summer Programs Coordinator, ERAU Summer Programs Summer 2018

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

Skills

CAD / Fabrication

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

Simulation / FEA

- SolidWorks Simulation
- ANSYS Workbench
- Thermal Desktop

Programming / Software

- MATLAB
- C & C++
- Microsoft Word, Excel, Powerpoint
- HTML/CSS

Honors

- ΦΚΦ Honor Society Member
- ERAU Presidential Scholarship
- CoE Dean's List (all semesters)
- 2019 NASA Space Grant Scholar