(503)-964-9532 | dextercarpenter1@gmail.com |

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github.com/DexterCarpenter

Overview

I am a recent graduate from Oregon State University with a bachelor's in Mechanical Engineering. Throughout my academic career I have developed a strong foundation in leadership and engineering fundamentals. My experience spans from leading a successful high school robotics team competing at the world level, to overseeing an environmental sensing project at Oregon State's OPEnS Lab, and leading a rocketry team to compete at the SA Cup. I'm eager to apply what I've learned to make a difference in the engineering industry.

Experience

Team Treasurer, OSU Experimental Sounding Rocket Team

Sept. 2023 - Jun. 2024

Work extended far beyond a Treasurer. Acted as a co-lead to the team. Lead the Team to compete at the 2024 Spaceport America Cup.

Project Lead, OPEnS Lab FloDar

Jan. 2021 – Nov. 2022

Worked alone to continue the development of *FloDar*, an environmental sensor to monitor groundwater discharge and its properties.

Team Co-Captain, FIRST Robotics Team

Jan. 2016 – Jun. 2019

Captain of the student-led team, *Pigmice*. Managed departments and ensured cohesion. Had significant influence on the design and manufacturing of the robot.

Intern, BioMechanica LLC

Summer 2017

Asked to interface a treadmill control to a Raspberry Pi as a summer internship.

Education

Bachelor of Science (B.S.), Mechanical Engineering

Sept. 2019 - Aug. 2024

Oregon State University, Corvallis, OR | 2024

GPA: 2.93

- Team Treasurer, OSU AIAA ESRA
- Project Lead, OPEnS Lab 'FloDar'
- Math & Science Tutor, OSU High School Equivalency Program

Portland Community College, Portland, OR

Summer 2017 - Summer 2019

GPA: 3.57

- Calculus I & II, Summer 2018 & 2019
- Machine Shop Class, Summer 2017
 - o Learned how to operate Mill, Lathe, Drill Press, 3D Printer, Basic CAD/CAM

Cleveland High School, Portland, OR

Sept. 2015 - Jun. 2019

GPA: 3.725 Coursework

- IB Physics & Biology HL, 2 years ea.
- IB Computer Science and Math, 4 years ea.

Awards

Recipient of IB Thinker Award, 2016

References

Mike Stewart, Flyer of Record & Mentor John Greeven, Capstone Advisor

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