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| Dexter Carpenter | Mechanical Engineer |

(503)-964-9532 | [dextercarpenter1@gmail.com](mailto:dextercarpenter1@gmail.com) | [dextercarpenter.github.io](https://dextercarpenter.github.io) | [github.com/DexterCarpenter](https://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

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| [Team Treasurer, OSU Experimental Sounding Rocket Team](https://dextercarpenter.github.io/portfolio#capstone-project) | 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.

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| [Project Lead, OPEnS Lab *FloDar*](https://dextercarpenter.github.io/portfolio#opens-lab-flodar-project-lead) | Jan. 2021 – Nov. 2022 |

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

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| [Team Co-Captain, FIRST Robotics Team](https://dextercarpenter.github.io/portfolio#first-robotics-team-experience) | 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.

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| Intern, BioMechanica LLC | Summer 2017 |

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

## Education

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| Bachelor of Science (B.S.), Mechanical Engineering | Sept. 2019 – Aug. 2024 |

Oregon State University, Corvallis, OR | 2024

GPA: 2.85

* Team Treasurer, OSU AIAA ESRA
* Project Lead, OPEnS Lab ‘FloDar’
* Math & Science Tutor, OSU High School Equivalency Program

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| Portland Community College, Portland, OR | Summer 2017 – Summer 2019 |

GPA: 3.57

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

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| 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