

# Dexter Carpenter

Mechanical Engineer

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## 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.

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## Experience

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| <b><u>Team Treasurer, OSU Experimental Sounding Rocket Team</u></b>   | 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.                                   |                        |
| <b><u>Project Lead, OPEnS Lab FloDar</u></b>  | Jan. 2021 – Nov. 2022  |
| Worked alone to continue the development of <i>FloDar</i> , an environmental sensor to monitor groundwater discharge and its properties.                            |                        |
| <b><u>Team Co-Captain, FIRST Robotics Team</u></b>  | Jan. 2016 – Jun. 2019  |
| Captain of the student-led team, <i>Pigmice</i> . Managed departments and ensured cohesion. Had significant influence on the design and manufacturing of the robot. |                        |
| <b>Intern, BioMechanica LLC</b>   | Summer 2017            |
| Asked to interface a treadmill control to a Raspberry Pi as a summer internship.  |                        |
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## Education

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|---|---------------------------|
| <b>Bachelor of Science (B.S.), Mechanical Engineering</b>   | Sept. 2019 – Aug. 2024    |
| Oregon State University, Corvallis, OR   2024   |                           |
| GPA: 2.85   |                           |
| <ul style="list-style-type: none"><li>• Team Treasurer, OSU AIAA ESRA</li><li>• Project Lead, OPEnS Lab 'FloDar'</li><li>• Math &amp; Science Tutor, OSU High School Equivalency Program</li></ul>  |                           |
| <b>Portland Community College, Portland, OR</b>   | Summer 2017 – Summer 2019 |
| GPA: 3.57   |                           |
| <ul style="list-style-type: none"><li>• Calculus I &amp; II, Summer 2018 &amp; 2019</li><li>• Machine Shop Class, Summer 2017<ul style="list-style-type: none"><li>○ Learned how to operate Mill, Lathe, Drill Press, 3D Printer, Basic CAD/CAM</li></ul></li></ul> |                           |
| <b>Cleveland High School, Portland, OR</b>  | Sept. 2015 – Jun. 2019    |
| GPA: 3.725  |                           |
| Coursework  |                           |
| <ul style="list-style-type: none"><li>• IB Physics &amp; Biology HL, 2 years ea.</li><li>• IB Computer Science and Math, 4 years ea.</li></ul>  |                           |
| Awards  |                           |
| <ul style="list-style-type: none"><li>• Recipient of IB Thinker Award, 2016</li></ul>   |                           |

I encourage you to check out my [website](https://dextercarpenter.github.io).