

# Dexter Carpenter

Mechanical Engineering Major

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## Overview

I'm a fourth-year engineering student at OSU looking for work over the Summer. I have a passion for design, physics, math, and robotics. I have worked with teams to design and produce sensing equipment. I've developed an interest in mathematics and am eager to apply it. I'm fluent in software such as MATLAB, SolidWorks, and office programs, and have experience applying these tools. I have tutored math privately and professionally. Through my education, I've gained experience working in a machine shop, gained an interest in mathematics, statics and dynamics, as well as experience using the tools and skills an engineer needs.

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## Work Experience

### OPEnS Lab Project Lead (Oregon State)

- Project Lead for '[FloDar](#)' Project, Jan 2021 – Nov 2022

### Educator

- Math & Science tutor for High School Equivalency Program at OSU, Sept 2020 – Jan 2021
- Private math tutor, Summer 2020 - Present
- FIRST LEGO League Mentoring, 2019 season
  - Led two middle school teams in strategy, analysis, project
  - *Tournament Director* for practice FLL tournament, December 2018

### FIRST Robotics, FRC Team 2733, 2016-2019

- Team Co-Captain, 2019 Season
  - Managed whole team alongside co-captain

### BioMechanica Internship, BioMechanica LLC, Summer 2017

- Asked to create a way to interface a treadmill to a Raspberry Pi as a summer internship
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## Education

### Oregon State University, Corvallis Campus (Mechanical Engineering) – GPA: 2.76

- Notable Coursework:
  - ME 317 (Advanced MATLAB course), Fall 2022
  - MTH 480 (Systems of ODEs, audit), Winter 2022
  - MTH 341 (Linear Algebra), Spring 2020
  - ENGR 248 (SolidWorks course), Spring 2020

### Portland Community College

- Machine Shop Class, Summer 2017
  - Learned how to operate CNC Mill, Lathe, Mill, Drill Press, 3D Printers, Basic CAD and CAM

### Cleveland High School, Portland OR – GPA: 3.725

Graduation Date: June 2019

- Notable Coursework:
    - IB Physics and Biology HL, 2 years ea.
    - IB Computer Science and Math, 4 years ea.
  - Honors and Awards
    - Recipient of IB Thinker Award - 2015/2016 School Year
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## References

Ben Leshchinsky, Associate Professor, Stakeholder, [ben.leshchinsky@oregonstate.edu](mailto:ben.leshchinsky@oregonstate.edu)

Chet Udell, Assistant Professor, OPEnS Lab Manager, [udellc@oregonstate.edu](mailto:udellc@oregonstate.edu)