

Dexter Carpenter

Mechanical Engineering Major, Mathematics Minor

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Overview

I'm a fourth-year engineering student at OSU looking for work in my industry. I have a passion for design, physics, math, and robotics. I have worked with teams to design and produce sensing equipment. I've developed a huge 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. Currently I tutor math privately and professionally. In the past, I have worked to design an exterior control system for a treadmill as an internship, mentored youth about engineering, and had extensive involvement in robotics. Through my education, I've gained experience working in a machine shop, gained an interest in mathematics, physics and CS, as well as experience using the tools and skills an engineer needs.

Work Experience

OPeS Lab Project Lead

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

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

Chet Udell, Assistant Professor, OPeS Lab Manager, udellc@oregonstate.edu