**Dexter Carpenter**

Mechanical Engineering Major, Mathematics Minor

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

**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**

**OPEnS Lab Project Lead**

* Project Lead for [‘FloDar’ Project](https://github.com/OPEnSLab-OSU/OPEnS-Lab-Home/wiki/FloDar), 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

**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

**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)