**Dexter Carpenter**

Mechanical Engineering Major, Mathematics Minor

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**Overview**

I’m a second-year engineering student at OSU looking for work in my industry over the summer. I have a passion for design, physics, math, and robotics. I have worked with teams to design and fabricate robots and done analyses such as root cause to improve design. 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 using those tools to produce a product. Currently I am a tutor privately and professionally. In the past I have worked to design an exterior control system for a treadmill as an internship, and mentored youth about engineering. 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 tools an engineer needs to understand fluently.

**Work Experience**

**Educator**

* Math & Science tutor for High School Equivalency Program at OSU, Fall 2020 - Present
* 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: 3.27

* Notable Coursework:
  + MTH 341 (Linear Algebra), Spring 2020
  + MTH 256 (Differential Equations), Winter 2020
  + ENGR 248 (SolidWorks course), Spring 2020
  + ENGR 112 (MATLAB course), Winter 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**

Bartolo Marquez, HEP Tutor employer, [bartolo.marquez@oregonstate.edu](mailto:bartolo.marquez@oregonstate.edu)

Cindi Carrell, Robotics Coach, [ccarrell@gmail.com](mailto:ccarrell@gmail.com)