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| **Dexter Carpenter**  503-964-9532 | dextercarpenter1@gmail.com | github.com/DexterCarpenter |
| **Overview** |
| I’m a second year mechanical engineering student looking for work in my industry over the summer. I have a passion for mechanical design, testing and iteration, 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. In the past I have worked to design an exterior control system for a treadmill as an internship, interacted with the public about my experience as a leader on a robotics team, 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. |
| **Education** |
| **Oregon State University, Corvallis Campus (Mechanical Engineering)**   * 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 * GPA: **3.28**   **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**  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 * GPA: **3.725** (Unweighted), **4.059** (Weighted) |
| **Skills** |
| |  |  |  |  | | --- | --- | --- | --- | | * SolidWorks / GD&T | * Arduino | * Project Management | * Leadership | | * Excel & Office 365 | * Raspberry Pi | * Communication | * Mentoring | | * MATLAB | * GitHub | * Time Management | * Critical Thinking | |
| **Experience & History** |
| **Robotics Leadership Positions**, FRC Team 2733, 2016-2019   * Team Co-Captain, 2019 Season   + Managed whole team alongside co-captain, awareness of progress of goals * Manufacturing Captain, 2018 Season   + Focused on keeping manufacturing department on track * Build Lead, 2017 Season   + Manufactured large portions of robot, helped manufacturing captain manage their department   **Outreach Educator**, Spokesman for Robotics Team   * Educated public about my team, STEM, FIRST, and my experience with it   + FLIR outreach event, April 2019   + Portland Engineering Week, 2017, 2018 and 2019   + Autodesk Portland, 2018   + AWS Elemental, 2018   + DW Fritz *Bring your Problem to Work Day*, 2018   + Portland Maker Faire, 2017, 2018   + Mentored female scouts in the BSA Explorers program in STEM, 2017, 2018   + Hillsboro Air Show, 2017 * FIRST LEGO League Mentoring, 2019 season   + Led two middle school teams in strategy, analysis, project   + *Tournament Director* for practice FLL tournament, December 2018   **BioMechanica Internship**, BioMechanica LLC, Summer 2017   * Asked to create a way to interface a treadmill to a Raspberry Pi as a summer internship |
| **References** |
| Cindi Carrell, Robotics Coach, ccarrell@gmail.com  Martyn Shorten, Owner of BioMechanica, Martyn.Shorten@biomechanica.com |