Jacob Landes, E.I.

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Work Experience

Mechanical Engineer, Western Industrial Contractors – Aurora, CO   September 2020 –Present

- Designed 3 new conveyor support styles in Inventor, tested designs using FEA and hand calculations to select a design to be used as a standard in all future USPS projects at the company
- Developed sheet metal parts for custom project needs as well as standard parts that will be used across the WIC project portfolio in collaboration with the WIC machine shop
- Utilized new standard parts to streamline project timelines throughout the company, including my most recent project in which I was able to complete the design several weeks early and 40% under budget
- Implemented GD&T and best drafting practices to create drawings that can be fabricated by the WIC sheet metal shop on the laser cutter, punch machine and press brake

3D Design Engineer, HF Made 3D Printing – Golden, CO   August 2020 – October 2022

- Created a 3D printed bike chain guard in Fusion 360, working closely with a local cycling team to test each iteration of the design on the customers' bikes to ensure that the part met their needs
- Designed complex geometry for a visually appealing 3D Printed mason jar holder in Onshape
- Built a 3D printing lab in the office to create a space where prototype models can be quickly fabricated

Facilities Engineering Intern, Bosch Automotive – Albion, IN   May 2018 – August 2018

- Revitalized plastic injection molding facility processes to promote safety and employee wellbeing
- Followed the manufacturing process of engine cooling fans from the design to the final product

Virtual Construction Intern, U.S. Engineering – Westminster, CO   May 2019 – August 2019

- Formulated the 3D design of Revit drawings to be produced for use in construction projects
- Improved QA/QC process by building a framework to take advantage of more efficient software

Skills

- **Software**: SolidWorks (CSWA), Onshape (Certified Associate), Autodesk Inventor, Vault PDM, Fusion 360 AutoCAD, Navisworks, Excel, Cura, Revit
- **Manufacturing:** 3D Printing, GD&T, Press Brake, Punch Machine, Laser Cutter, Prototyping, Soldering
- **Programming/Hardware**: MATLAB, C++, LabView, Arduino, Circuit Wiring, Sensors

Education

Colorado School of Mines – Bachelor of Science in Mechanical Engineering   May 2020