Chance Lama

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Summary

Quick learner with a well-rounded skill set and an unquenchable curiosity. Pursuing a career focused around intelligent, creative problem solving and human centered design.

Education/Skills

George Fox University, Newberg, OR May 2019
Bachelor of Science in Mechanical Engineering

Software: SolidWorks, Creo Parametric, Autodesk Inventor, ANSYS FEA/CFD, Excel, Matlab, CorelDraw, SketchUp

Technical Skills: Stress analysis, Mechanical Design, 3D Printing (Form 2, Makerbot, Dimension, Prusa), Trotec Laser cutting/engraving, Vertical Mill, Manual lathe

Relevant Experience

Mechanical Designer/Drafter, *Franklin Control Systems* August 2019 - April 2020

- Created hundreds of technical drawings and CAD models for the launch of a new product-line
- Rapidly gained proficiency in Creo Parametric and operated on par with experienced engineers
- Performed first article inspection of powder coated parts to assess vendor credibility
- Collected validation data for UL compliance with injection-molded plastic

Mechanical Engineering Intern, *Nortek Air Solutions* July 2018 - August 2019

- Designed tools to improve factory employees' effectiveness, efficiency, and comfort
- Simulated modal, thermal, structural, and fluid systems to aid in design and innovation
- Reviewed, developed, and documented factory-wide production and testing standards

Prototype Lab Manager*, George Fox University Engineering* January 2017 - April 2018

- Solved quality and failure issues on Form 2, Dimension 1200, Makerbot, and Prusa i3 printers
- Created all of the lab's part queueing/logging, material consumption, and inventory procedures
- Advised students on part orientation, material choice, and feasibility of 3D prints
- Became the on-campus authority in the operation of the Trotec Speedy 300 Lasercutter/engraver

Projects

FME Accountability Kiosk for *Access Solutions*: Fully designed and prototyped an outdoor 3R enclosure to house an RFID tagging and tracking system used for energy system repair sites

Failure Analysis for *Mechanical Engineering Design Course*: Analyzed fracture surfaces of a broken part to determine failure mode, loading, and misuse. Replicated failure with FEA.