DANIEL FRANKO

Mechanical Engineer in Training

CONTACT

(403) 667 - 4558

daniel.franko3@gmail.com

Calgary, AB, Canada

www.danielfranko.github.io

EDUCATION

B.S. Mechanical Engineering
University of Saskatchewan
Saskatoon, SK | 2020

SKILLS

- SolidWorks: Modeling & Drawings
- ANSYS Workbench & APDL
- MATLAB, MS Excel, Python
- Carbon Fiber
- Jigs & Fixtures
- Design for Manufacture
- CNC Machined Parts
- 3-D Printing

INTERESTS

Rock climbing, Running, Hiking, Reading, Arduinos & Robotics, Soccer, Hockey, Filmmaking, and all things Engineering!

PROJECTS

2U CubeSat Frame Design, USST Mars Rover: Robotic Arm & Carbon Fiber Chassis and Suspension, Huskie Formula Racing, Grabber Design Project, Homemade Go Kart

PROFILE

Recent mechanical engineering graduate with 2+ years of experience designing and analyzing mechanical components. Expert in SolidWorks and proficient in ANSYS, MATLAB, NX, and Inventor. Extensive hands on experience with prototyping.

EXPERIENCE

DESIGN ENGINEERING INTERN

Doepker Industries Ltd. | Saskatoon, SK | May 2018 - August 2019

I supported the Product Improvement and Product Development teams, identifying opportunities to optimize, standardize, and reduce waste on various commercial and specialty trailer models or developed custom designs as needed.

- Developed a $110k custom grain bulker trailer to drive innovative manufacture
- Re-designed and standardized bulker slope sheets saving 12-hrs per unit
- Designed a fender jig to improve installation ergonomics and save 10-hrs per unit
- Obtained Lean White Belt Certification and identified $125,000 in annual savings

ENGINEERING CO-OP STUDENT

voestalpine Rotec Summo Corp. (vRSC) | Burlington, ON | May 2017 - August 2017

At vRSC, the machine I assisted in designing the previous summer had been fabricated and assembled. The machine entered the development phase to achieve the required 4 seconds per operation. I gained lots of hands-on experience with systematic testing, re-engineering, prototyping, welding, and CNC machining.

- Re-engineered components and sub-systems to improve machine repeatability and eliminate crashes, reducing the cycle time from 25s to 4s per operation.
- Executed systematic troubleshooting, root-cause analysis after machine crashes
- Rapid prototype and iterative 3-D printed tooling before CNC machining

ENGINEERING CO-OP STUDENT

voestalpine Rotec Summo Corp. (vRSC) | Burlington, ON | May 2016 - August 2016

At vRSC, I worked with a close team of engineers to develop an automated machine to produce seat belt safety components. Raw stock tube is loaded, formed, profiled, and bent to produce the final shape.

- Completed design of a $1.5M automated machine to make pretensioners
- Developed calculators to design rack and pinion, ball screw, and pneumatics
- Designed and drafted mechanical systems for manufacture using SolidWorks.