Daniel Franko

Email: daniel.franko3@gmail.com

Phone: (403) 667 - 4558

Summary of Skills and Qualifications

- Strong mechanical design skills developed through internships and student teams
- Expert in SolidWorks and proficient in NX, AutoCAD, Inventor, and MS Excel
- Practical experience of joining, machining, and manufacturing processes
- Extensive hands-on experience in mechanical and electrical settings
- Clear, confident communication skills gained in technical and non-technical environments
- Various leadership experiences gained through volunteer and extracurricular involvement

Related Experience

Mechanical Engineering Intern | May 2018 – August 2019 | Saskatoon, SK Doepker Industries Ltd.

- Developed a \$110k custom grain bulker trailer with the goal of driving design innovation
- Oversaw production and provided manufacturing support during project construction
- Collaborated with engineers or financing departments to advance time-sensitive projects
- Obtained Lean White Belt Certification and identified \$125,000 in annual savings

Rover Project Manager | September 2018 – August 2019 | Saskatoon, SK University of Saskatchewan Space Team

- Managed a team of 20 students to design and construct a Mars rover prototype with budgetary and schedule constraints
- Designed and fabricated a completely custom carbon fibre rover chassis and suspension

Mechanical Engineering Coop Student | May 2017 – August 2017 | Burlington, ON voestalpine Rotec Summo Corp. | Project: Pretensioner Line & Ball Check

- Re-engineered components and subsystems to improve machine repeatability, decrease cycle time, and eliminate machine crashes
- Executed systematic troubleshooting and root-cause-analysis after machine crashes.
- Completed rapid prototype and iteration of 3-D printed tooling before CNC machining

Mechanical Engineering Coop Student | May 2016 – August 2016 | Burlington, ON voestalpine Rotec Summo Corp. | Project: Pretensioner Line

- Completed design of a \$1.5M automated machine to make seat belt pretensioners
- Included conceptual design, linear motion, pneumatics, cycle time, and detailed design
- Designed, drafted, and packaged mechanical systems for manufacture, with SolidWorks

Education

College of Engineering – Mechanical Engineering | Sept 2014-April 2020 University of Saskatchewan, Saskatoon SK

- 2015-2016, 2017-2018 Dean's Honour Roll (Average > 77%)
- Machine Design

- Advanced Mechanical Design
- Fluid Power Circuits
- Manufacturing Processes

Skill Set

Design Skills

SolidWorks CAD SolidWorks FEA GD&T Drawings PDM Professional DFMA ANSYS Matlab MS Excel MasterCAM

Mechanical Design

FEA
Sheet Metal Design
Weldments
Kinematic Studies
Force Analysis
Fastener Selection
CNC Components
FDM 3D Printed Parts
Coating Selection
Drawing Packages
AGMA Gear Selection

Relevant Projects

2U CubeSat Frame USST Mars Rover Formula SAE Grabber Design Project Hilsch Vortex Tube

Fabrication Skills

Lathe
Manual Mill
CNC Milling
Welding (MIG/TIG)
Sheet Metal
Carbon Fiber
Composites
Jigging
Soldering
Woodwork

Interests

Rock Climbing
Running
Cycling
Reading
Hiking/Camping
Soccer
Hockey