

Summary

EIT-eligible Mechanical Engineering student with co-op and field experience across upstream oil and gas, commercial HVAC, and drilling operations. Eager to take ownership of meaningful projects and grow as a versatile, hands-on engineer. CSWA-certified with coursework in design, manufacturing, and business management, complemented by self-taught software development and infrastructure design. Available for travel and relocation, graduating May 2026.

Education

Sep 2021 - May 2026
Edmonton, AB

BSc in Mechanical Engineering
University of Alberta

- Junior Honors Design Award: 1st Place in 2nd year Mechanical Design Competition

Experience

May 2025 - Aug 2025
Bonnyville, AB

Well-Site Operator Summer Student
Canadian Natural Resources Limited (CNRL)

- Sole on-shift operator for 52 conventional crude wells across 15 sites
- Managed all operational decisions with no on-site supervision, including preventative maintenance scheduling, production optimization, and third-party coordination
- Identified underperforming wells through fluid shot diagnostics and adjusted pump speeds and rod lift parameters, restoring output on 5 wells

Jul 2024 - Jun 2025
Edmonton, AB

Expeditor Team Lead
Cactus Club Café

- Coordinated 8-person team for 400–500 cover services; co-developed training program for new hires

May 2024 - Aug 2024
Edmonton, AB

HVAC Sales Engineer Intern
Trane Technologies

- Supported the commercial HVAC sales pipeline across 5–6 concurrent projects ranging from \$50k–\$2.5M in value, from equipment specification to contractor bidding and final quotes
- Collaborated with consulting engineers on specifying AHU configurations, RTU sizing, and chiller packages to optimize performance
- Progressed from support role to independently managing client relationships

May 2022 - Aug 2023
Various, CAN

Floorhand
Precision Drilling & Ensign Energy Services

- Worked on triple and super single drilling rigs drilling 5–7 km horizontal sour gas wells and shallow horizontal crude wells in remote Alberta and Saskatchewan
- Performed maintenance on generators, fluid pumps, and auxiliary rig systems; maintained 100% HSE compliance through 12-hour shifts on 20-day rotations

Projects

Balloon-Launched Drone Platform Capstone | Dec 2025

Landing Zones Canada

- Led a 6-person team as Project Lead and primary client contact with final sign-off authority on all reports, drawings, and deliverables
- Authored the majority of a 400+ part SolidWorks assembly, including the structural frame, drone carriage, and hinge sub-assembly
- Delivered the Wissei MK1, a field-deployable balloon tether and drone release system that eliminates manual tether handling and reduces crew from 3 to 2, with FEA-verified structural safety factors of 4.2–12.4 and a final BOM within the client's target budget

Vanaheim Personal Cloud Infrastructure | Ongoing

Personal Project

- Designed and built a self-hosted private network replacing commercial cloud services, managing 20+ applications across segmented network zones with automated deployment, redundant storage, and centralized access control
- Developing a custom web application as a unified personal productivity platform, with live system monitoring deployed and modules for file management, budgeting, and AI-assisted workflows in active development

Skills

SolidWorks (Sheet Metal, FEA, CFD) • AutoCAD • GD&T • ASME/ISO Drawings • MATLAB • Microsoft Excel

Languages

English (Fluent) • French (Proficient) • German (Beginner)

Certifications

CSWA • H2S Alive • Standard First Aid • Fall Arrest

Interests

3D Printing • AI Assisted Development • Photography • Backpacking