

Eric Walters

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Summary

Mechanical Engineering student (EIT-eligible, graduating May 2026) with CSWA certification and 3+ years of co-op and field experience across upstream oil and gas, commercial HVAC, and drilling operations. Strong fundamentals in SolidWorks assemblies, ASME-compliant drawings, and FEA/CFD analysis.

Education

University of Alberta
BSc in Mechanical Engineering

Sep. 2021 - Expected May 2026
Edmonton, AB

Awards

- Junior Honors Design Award: 1st Place, 2nd Year Design Competition

Experience

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

May 2025 – Aug. 2025
Bonnyville, AB

- Sole on-shift operator for ~50 conventional crude wells across 15 sites on a one-week-on, one-week-off rotation with full ownership during each shift
- Managed all operational decisions independently 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

Cactus Club Café
Expeditor Lead

Jul. 2024 – Jun. 2025
Edmonton, AB

- Coordinated 8-person teams as expo lead during 400–500 cover services; co-developed training program for new hires

Trane Technologies
HVAC Sales Engineer Intern

May 2024 – Aug. 2024
Edmonton, AB

- Supported the full commercial HVAC sales pipeline across 5-6 concurrent projects ranging up to \$2.5M in equipment value, from equipment specification with design engineers through to contractor bidding and final quotes
- Collaborated with consulting engineers on equipment selection, running humidity calculations and specifying AHU configurations to optimize performance
- Progressed from background support to independently managing client relationships and handling contractor-facing work

Precision Drilling & Ensign Energy Services
Floorhand

May 2022 – Sep. 2023
Spirit River, AB & Kindersley, SK

- 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 | *Landing Zones Canada*

Dec. 2025

- Led a team of six engineers through requirements definition, detailed design, and client hand-off for a balloon-launched autonomous glider platform (GITPO RPAS)
- Produced a 400+ part SolidWorks assembly with ASME-compliant drawings and 3 technical reports

Vanaheim, Self-Hosted Infrastructure | *Personal Project*

Ongoing

- Built privacy-focused home infrastructure on Proxmox with 20+ containerized services, five-VLAN segmentation, OPNsense firewall, WireGuard VPN, and SSO

Skills & Certifications

Certifications: CSWA, H2S Alive, Standard First Aid, Fall Arrest

CAD & Design: SolidWorks (Sheet Metal, FEA, CFD), AutoCAD, 3D Printing, GD&T, ASME/ISO Drawings

Tools: MATLAB, Microsoft Excel, Linux, Salesforce CRM, Project Scheduling, Root Cause Analysis

Languages: English (*Fluent*), French (*Proficient*), German (*Basic*)