

Bryce Solis, EIT

Engineer in Training | MSc(Mgt) Business Analytics Student

Education

B.Sc Civil & Environmental Engineering, University of Alberta

- ❖ Academic All-Canadian Honors Graduate

M.Sc(Mgt) Business Analytics, University of Lethbridge

- ❖ Academic All-Canadian Honors

Work Experience

Automation Engineering Intern

April - Aug 2025

Croda Inc, *Lamar, Pennsylvania USA*

- Produced As-Built plant drawings ensuring accurate documentation of wiring instrumentation, and equipment layouts for the new facility startup.
- Programmed and configured DeltaV control modules for pumps, valves, switches, and reactors while conducting both software and on-site functional testing.
- Developed electrical wiring diagrams for level switches, flow pumps, temperature sensors, and liquid level sensors on AutoCAD.
- Validated, and tested technical design specifications including Alarm Design, Control Module Design, Historian Design, and Interlock Design, ensuring compliance with operational and safety standards.

Environmental Operations Intern

May - Aug 2024

Canadian Pacific Kansas City Railway, *Calgary, AB*

- Conducted and logged environmental site inspections at active rail yards, including development of recommended corrective actions.
- Completed spill reports to fulfill provincial environmental reporting requirements in Alberta and BC.
- Trained in railway Incident Command Systems (ICS) and Emergency Response exercises for effective response to rail incidents.
- Assisted in the assessment of rail incident sites to identify potential and actual adverse environmental impacts and assisted in development of remedial measures to minimize impacts.

Student Field Surveyor

May - June 2022

University of Alberta, *Edmonton, AB*

- Conducted topographic surveys, involving detailed measurements and stakeouts for construction in the university area, under the supervision of a licensed surveyor.
- Modeled topography and survey documents such as cut/fill of soil using AutoCAD.

Projects

Business Case – Western Canada Retired Ties Project

May - Aug 2024

Canadian Pacific Kansas City Railway, *Calgary, AB*

- Spearheaded the development of a comprehensive business case for Retired Rail ties that forecasted a 10-20% reduction in disposal costs.
- Assessed the viability of the proposed project through detailed financial modeling, projecting a cost benefit analysis over a 10-year time frame.
- Created an in-depth implementation plan, demonstrating feasibility and clearly outlining integral milestones in the project's integration.

Engineers for a Sustainable World – Greenhouse Project

Sept 2023 - May 2024

University of Alberta, *Edmonton, AB*

- Utilized the captured heat released from decomposing organic matter to sustain the temperature of a greenhouse through the fall semester.
- Assisted in the construction and design of the thermal energy recovery system for the greenhouse.

Skills/Programs

- **CAD:** AutoCad, Civil 3D
- **MS Office:** Excel, PowerPoint, Word
- **Languages:** DeltaV
- **Modelling:** WaterGems, HEC-HMS, PLAXIS 3D