

# 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**

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