

Braedan Dennahower, EIT

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SKILLS SUMMARY

- Proven project management competency from successfully delivering large scope budgetary cost estimates to multi-national clients.
 - Excellent communication and organizational skills developed through leading diverse teams of unionized employees.
 - Experienced in performing mass and energy balances for industrial chemical processes.
 - Proficient knowledge of engineering software such as Aspen HYSYS, MATLAB, AutoCAD P&ID, Microsoft Suite, and VBA macros.
 - Strong working knowledge of Process Flow Diagrams, General Arrangements, and Process and Instrumentation Diagrams.
 - Exceptional problem-solving ability refined through fast paced troubleshooting of daily manufacturing breakdowns.
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EXPERIENCE

General Motors of Canada – Paint Process EIT, *(June 2017 – Present)*

- Managed all aspects of the topcoat and prime systems during daily production, including throughput, quality, maintenance, and manpower scheduling in each area.
- Led and performed daily root cause/problem-solving initiatives to improve quality metrics.
- Interpreted and adjusted FANUC robot logic to reduce and eliminate quality defects in the painting process.
- Gained hands on experience with electrical and mechanical components such as transducers, valves, solenoids, relays and pneumatics.
- Worked daily with Six Sigma, Red X, and lean management techniques to maximize productivity and minimize waste.

Whiting Equipment Canada – Process EIT, *8-month Co-op (2015-2016)*

- Managed the conceptual and budgetary design of evaporation and crystallization unit operations for mining industry clients.
- Applied engineering principles and thermodynamic knowledge to prepare equipment sizing estimates for crystallizer vessels, heat exchangers, barometric condensers, pumps and compressors.
- Further developed the ISO 9001 Quality Management Systems by creating a customer relationship database and internal process flow sheets in Visio/Excel.
- Created and refined process flow diagrams and P&IDs for a variety of engineering designs.

Germiphene Corporation – QA Technician, 4-month Co-op (2014)

- Prepared and initiated cleaning validation studies and multiple equipment qualification procedures to ensure Health Canada, GMP, and FDA compliance.
- Created and revised standard operating procedures to ensure proper production techniques were performed.
- Co-ordinated installation, operational and performance qualification experiments on new and modified equipment.
- Calibrated and standardized numerous lab and production equipment including UV spectrophotometer, T.O.C. and pH meter.

The Woodbridge Group – R&D Lab Assistant, 4-month Co-op (2014)

- Worked independently in the corporate research and development laboratory creating and testing new formulations of polyurethane foam.
- Performed density, airflow, sound absorption and water content tests.
- Introduced to 5S, Kaizen, and lean management for process improvement.

RELEVANT PROJECTS

Recovery of Hydrocarbons from a Contaminated Waste Stream – GreenMantra Technologies

- Determined the feasibility of separating hydrocarbons from a waste stream to increase the overall operating efficiency of the facility.
- Designed and modelled the recovery process using Aspen HYSYS and Microsoft Excel.
- Performed a cost-benefit analysis to determine the economic feasibility of the process.
- The implementation of the design would reduce the total natural gas consumption and carbon emissions of the facility, with a pay-back period of 11-20 years.

EDUCATION & PROFESSIONAL DEVELOPMENT

University of Waterloo – Bachelor of Applied Science, Sep. 2012 – April 2017

- Chemical Engineering Honours Program – Graduated with Distinction.

University of Waterloo – Project Management Certificate, April 2019 – July 2019