

## Jack Drolet

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Authorized to work anywhere in the USA and Canada (Dual citizenship)

Bilingual: English, French

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### ENTRY-LEVEL SOFTWARE ENGINEER

Recent graduate of a top tier university combining strong academical achievements with hands on industry experience. Seeking opportunities to leverage my computer science and chemical engineering education to the benefit of a world class results oriented proactive organization. **Passionate about computer science I developed working knowledge and completed projects using the following programming languages and technologies:**

Java \* C/C++ \* C# \* MATLAB \* Python \* Shell scripting \* OCAML \* GLSL \* Github \* Gitlab \* OpenGL \* Unity \* Docker \* Markdown \* Maven \* Gradle \* Gherkin \* Unix/Linux \* Microsoft Office suite Excel, Word, PowerPoint, Publisher

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### EDUCATION

McGill University Montreal, QC, Canada – Top 3 ranked school in Canada - (May 2022)

**B. Sc. Software Engineering with a Minor in Chemical Engineering (GPA: 3.92/4)**

Graduated with Distinction (top 25% of cGPA in the Faculty of Science)

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### SELECTED ACADEMIC PROJECTS

- Created a hole in the wall video game with sound using OpenGL and C++. Wrote shaders that supported lighting (spotlight, point and directional), shadows, and texturing.
  - Implemented game algorithms including game AI, pathfinding and collision detection using Unity
  - Recreated the board game Elfenroads with online multiplayer functionality using Github, Unity, C#, and Docker
  - Created a Java calculator program to calculate results from a string. Support for order of operations
  - Created an Architectural Description (AD) for Gradle
  - Tested software using JUnit and Gherkin language with Cucumber framework. Used Maven to automate test suite.
  - Used MATLAB to model and solve chemical engineering problems
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### PROFESSIONAL EXPERIENCE

**MCGILL UNIVERSITY** - Montreal, QC Canada – March to May 2022

**Undergraduate Student Course Assistant:** Created learning materials for Chemical Engineering students focusing on Pressure Swing Adsorption.

**ENTERPRISE FOUNDRY LLC** – Lewiston, ME (Summer 2019, 2018). *Manufacturer of high quality gray and ductile iron castings.*

**Process Analyst Intern:** Using lean management principles and tools I documented, analyzed and audited various manufacturing and office processes. I directly interacted with various departments and personnel ranging from Production to the Plant General Manager. I developed a broad understanding of the activities and connectivity between the different functions of the business.

- Performed internal quality audits in accordance with the ISO 9001:2015 standard
- Created job breakdown sheets for use in Training Within Industry (TWI) training methods
- Website design of [www.enterprisefoundry.com](http://www.enterprisefoundry.com)
- Produced Control Plans for manufacturing and office related processes
- Performed time studies, documented manufacturing processes and recommended improvements
- Participated in the need analysis for a constraint driven production scheduling software project
- Added improvements to the Quality Management System (QMS)

**SMART CARTS ENTERPRISES LLC** – Buxton, ME (Summer 2015-2021) *Designer, manufacturer and distributor of premium quality gardening products.*

- Performed time studies, process improvements and equipment installation
- Assisted in the creation of new product developments and prototypes
- Installed and configured the plant remote surveillance camera system
- Created patent diagrams drawings for a new product patent application
- Created 2 functioning websites ([www.smartcarts.com](http://www.smartcarts.com) and [www.infinitecedar.com](http://www.infinitecedar.com).)
- Acted as a Sales Representative at the Connecticut Flower and Garden Show
- Edited pictures for marketing material

**VALUE CREATION GROUP LLC** – Morrisonville, NY (January 2017 – August 2018) *Consulting firm helping small businesses to optimize their overall performance using lean management principles and tools.*

**Bookkeeper:** Using QuickBooks to perform weekly bookkeeping for clients by entering expenses and printing checks for payments.

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## HONORS AND LEADERSHIP ACTIVITIES

- McGill Dean's Honor List (Top 10%)
  - James McGill Academic Excellence Scholarship for 2018-2022 school years.
  - Valedictorian of Saranac High School class of 2018
  - National Honor Society Member and Treasurer
  - Varsity Sports: Track & Field, Soccer, Tennis (Team Captain)
  - School Jazz Band member for 2 years
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## **SKILLS / ADDITIONAL TRAINING**

**Certified Internal Quality Auditor.** Was formally trained on ISO Management System and internal auditing techniques.

**Lean Manufacturing:** Received various formal training on the Lean management philosophy and tools.