

Jack Drolet

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

Bilingual: English, French

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

EDUCATION

McGill University Montreal, QC, Canada – Number 1 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)

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

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
- 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 and 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.

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.