

# Wesley McCloy

Mechatronics Engineering

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## EXPERIENCE

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### Release and QA Engineer

**Kik Interactive**

**2015**

Worked in collaboration with developers to ensure meaningful advances in one of the world's leading social apps. Involved in every step of 3 week sprint cycles, from design to release.

Developed and designed the Apple Watch App for Kik.

Created a real-time user feedback monitoring system with Python and MongoDB in the event of app failures and to prioritise feature releases.

### Technical Project Specialist

**Maple Leaf Foods**

**2013**

Initiated and deployed multiple infrastructure solutions on mobile and server platforms.

Replaced the use of laptops with iPads in a sales team (\$500,000 budget). Overhauled the functional stack with multiple tailored and content rich applications. Oversaw UI/UX design, device management tools, security and package delivery.

Created training material for conferences held across Canada, engaging regional business managers.

Implemented a Thin-Client (VDI) computer solution to bring data aggregation and cloud computing to remote locations.

### Project Engineering

**PepsiCo Foods Canada**

**2013**

Lead in start-up and project closure. Managed project implementation, capital budget, contractors and engineers.

Developed Project Aerie to prevent breakdown of sprinkler systems. Uses PLCs to interface with various hardware components.

Monitored plant energy usage using SQL data. Devised Kaizen events and Flight Plans for usage reduction. Rate analysis led to annual savings of over \$600,000.

### Teaching Assistant

**University of Waterloo**

**2014**

Taught first year Programming and Circuit courses. Aided in course project creation.

Designed a microprocessor test system and troubleshooting solution.

## SKILLS

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Languages	Objective-C, Python, C/C++, VBA, Ladder, SQL, MongoDB, Bilingual French
Software	Xcode, Visual Studio, MATLAB, Arduino, GitHub, Excel, SharePoint, Project, MySQL
CAD	Eagle, AutoCAD, SolidWorks
Courses	Embedded Microprocessors, Real-Time Systems, Data Structures and Algorithms, iPhone Application Development, Systems and Signals

## EDUCATION

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2012— 2017	<b>Bachelor of Applied Science</b> HONOURS IN MECHATRONICS University of Waterloo
2012	<b>French Baccalaureate</b> VALEDICTORIAN Lycée Denis Diderot

## ACTIVITIES

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### iOS development

Continuously strengthening and honing skills. iOS and WatchKit SDK. Took iPhone Application Development (CS 193P) at Stanford online.

### Embedded Systems

Hacked together tons of cool stuff; from IR remotes to keyless entry; Internet of Things

### Electric Motorsports

Designed High Voltage and Low Voltage circuitry including the use of CAN protocol.

### Engineering Competition - Senior Design

1st place Waterloo Engineering Competition  
3rd place Ontario Engineering Competition

### Model United Nations

Acted as Ambassador, Special Summit delegate and Chair. Developed debating skills throughout the program with the undertaking of leadership courses. Debated with several hundred students.