Wesley McCloy

Mechatronics Engineering

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EXPERIENCE

Technical Project Specialist

Maple Leaf Foods   **2013**

Initiated and deployed multiple infrastructure solutions. Ranging from mobile devices to servers.

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 were used for security and package delivery.

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

Implemented a Thin-Client (VDI) computer solution for remote locations.

Project Engineering

PepsiCo Foods Canada   **2013**

Lead in start-up and project closure. Managed project implementation, contractors, capital and in house mechanics.

Developed Project Aerie to prevent breakdown of sprinkler systems. Through PLCs and HMIs.

Monitored plant energy usage using query software and SQL. Devised Kaizen events and Flight Plans for usage reduction. Rate analysis led to annual savings of over $600,000. Co-ordinated with companywide engineers for energy saving projects.

Teaching Assistant

University of Waterloo   **2014**

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

Designed fuel cell car test system and troubleshooting solution.

Research Intern

Africa Green Energy   **2012**

Found the optimal renewable organic waste resource for heat use in industry. Tested dry organic matter for calorific value using a bomb-calorimeter while taking into account environmental factors for sustainable development.

SKILLS

Languages	C/C++, Python, VBA, Ladder, Bash, Bilingual French
Software	Arduino, Visual Studio, MATLAB, Excel, SharePoint, Project, Publisher, SCCM, AD, MySQL
CAD	Eagle, AutoCAD, SolidWorks
Courses	Real-Time Systems, Data Structures and Algorithms, Linear Systems and Signals, Numerical Methods

EDUCATION

2012—present	**Bachelor of Applied Science** HONOURS IN MECHATRONICS University of Waterloo
2012	**French Baccalaureate** VALEDICTORIAN Lycée Denis Diderot

ACTIVITIES

Electric Motorsports

Senior Member of Student Design Team building a formula electric car. Designed High Voltage and Low Voltage circuitry including the use of CAN protocol. Plan on being in the driver's seat in 2015 competition.

Arduino

Created electronic prototypes and designs for beginners to start with. Evaluated approach to meet end user experience goals. Publishing full solution to turning an IR signal into a key-press by changing Arduino firmware.

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.