
FIRST NAME LAST NAME



905-525-9140



lastname@mcmaster.ca



Linkedin.com/in/lastname

HIGHLIGHTS OF QUALIFICATIONS

- Currently enrolled in level 4 of an integrated 4.5-year joint program with McMaster University and Mohawk College
- Exceptional teamwork and leadership skills demonstrated as the Director of Outreach for Engineers without Borders
- Strong verbal and written communication and presentation skills developed through various group projects and presentations such as the communications project
- Coursework in chemical, mechanical, electrical, electronics and computer engineering with an emphasis in industrial processes and hardware/software concepts in process automation

RELEVANT EXPERIENCE

MECHANICAL DESIGN CO-OP

MAY 2016 – APRIL 2017

OPUS AUTOMATION, ANCASTER ON

- Contributed to the design and development, building, installing and commissioning of robotic automation
- Designed and installed aluminum extrusion machine guarding and drip pan systems at Magna Powertrain
- Installed pneumatic cylinders, door switches, door sensors, conveyor sensors, remote I/O blocks, RTE boxes and ran wire at various work sites
- Edited factory layouts in AutoCAD, created 3D models in Inventor from tiny switch plates to entire robot cells and performed reach tests within
- Participated in weekly team meetings, communicated projects progress, developed schedules and produced daily technical reports for supervisors and factory managers using Excel Pivot tables and Macros

EDUCATION

BACHELOR OF TECHNOLOGY, AUTOMATION ENGINEERING TECHNOLOGY

CLASS OF 2018

MCMASTER UNIVERSITY, HAMILTON ON

- Will be awarded with a Bachelor of Technology Degree and Chemical Engineering Technology Advanced Diploma and a Business Management Certificate

SKILLS

SOFTWARE:

- Academic knowledge of VB.net and C++ programming languages and experience using AutoCAD, MATLAB, and LabView

LABORATORY:

- Experience in wiring and calibrating process controls including flow, level, pressure and temperature
- Strong exposure to building circuits and measuring voltages, currents, and resistances with digital multimeters, oscilloscopes, and function generators
- Practical lab experience working with precise measurement using 4 point scales and other measuring tools in analytical chemistry labs

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PROJECTS

MOTION CONTROL & ROBOTICS:

- Wired and programmed an Arduino Uno to control a robotic arm using servos and the serial monitor
- Utilized MATLAB to process images with techniques such as shadow removal, watermark removal, smoothing and edge detection

COMMUNICATIONS:

- Collaborated in a group of 4 to research, write and present a report on wind turbines and the effects that they have on the environment and financial sector

C++ PROGRAMMING:

- Used C++ to program, test, and debug a program created to determine the weight of an aircraft to in turn determine the amount of passengers and cargo that can be carried on the aircraft

CHEMICAL PROCESSING:

- Collaborated in a team of 3 to distill Toluene from Cyclohexane using an eight phase distillation column
- Learned how to operate large chemical engineering machinery, along with the associated human machine interfaces, and properly take samples from machines

OTHER EXPERIENCE

SALES REPRESENTATIVE

HAMILTON TECH DRIVE, HAMILTON ON

JUNE 2015 – APRIL 2016

- Increased sales efficiency by 70% by taking additional leadership sales training courses
- Promoted high-tech alarm systems to homeowners in Hamilton and the surrounding areas, with a total of 20 tech products sold in the first week
- Collaborated with management from sales, logistics, marketing and tech services on successful methods to effectively close sales

EXTRACURRICULAR ACTIVITIES

DIRECTOR OF OUTREACH – ENGINEERS WITHOUT BORDERS

SEPT 2015 – DEC 2016

- Created and facilitated weekly workshops for a 13 week semester
- Led team of 4 to design and implement 2 major workshops for University classes
- Educated students about socio-economic problems and how engineers can create solutions

MCMASTER BADMINTON CLUB

SEPT 2014 – PRESENT

- Compete in organized games during weekly club nights
- Other: Enjoy working on Arduino, fixing my own computer, and ultimate frisbee