JOHN WEBSTER

Seeking a dynamic and positive workspace where bringing innovation and happiness to others is the goal of every day.

University of Waterloo
2B Mechatronics Engineering
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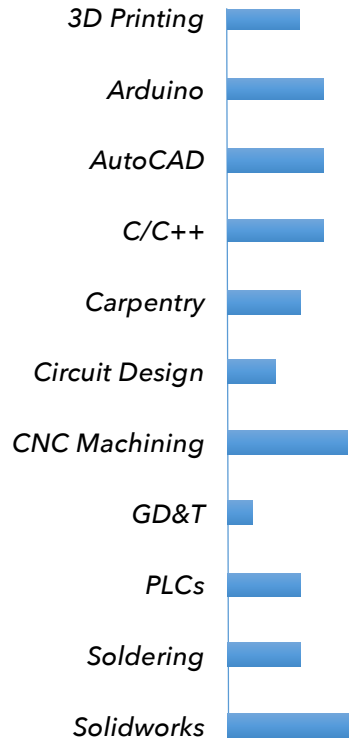
Highlights of Qualifications:

- Skilled with ***AutoCAD*** and ***Solidworks*** for analysis and design
- ***Design to manufacturing*** and ***project management*** experience
- Professional experience with ***Arduino*** DAQ testing systems
- Experienced in ***C++*** and ***PLC*** programming

Technical Skills:



Professional Experience:

ZBoard, Intuitive Motion Inc. (Jan – Apr 2017)

- Analyzed and proposed enhancements for key production and maintenance processes
- Optimized 3D printed part designs for easier and more efficient installation and manufacturing
- Gained small team management experience after stepping into the role of shop manager for a week following an unexpected emergency

DisplayPoint Manufacturing Inc. (May – Aug 2016)

- Developed excellent management skills directing urgent packing orders with teams of 20-30 workers
- Communication skills and professionalism developed through purchasing and project proposals
- Independently balanced many technical tasks day to day, completing them all in a timely manner

Past Projects:

Electric Skateboard Dynamometer (ZBoard, Intuitive Motion Inc., Apr 2017):

- Designed and built an electric skateboard dyno run with Arduino for R&D and analysis purposes, capable of measuring the speed and power of any electric skateboard on today's market
- Developed an automated program to run and analyze power curves of motors, using Arduino and Excel

Noise Reduction Project (Displaypoint Manufacturing Inc., May – Aug 2016):

- Analyzed factory noise and produced cost effective solutions to target specific noise sources
- Designed and tested vacuum pump sound enclosures, acoustic panels and barriers, which entailed Solidworks and AutoCAD design to manufacturing on CNC machines and thermal analysis

Steering Wheel Redesign (UW Mini Baja SAE Team, Dec 2016):

- Redesigned the wheel to be stronger and more ergonomic; manufactured by hand
- Analyzed designs using Solidworks FEA at a basic level

Custom Longboards (Personal, Jan 2014 - Present):

- Designed and constructed Baltic birch longboard decks independently and in collaboration with an artist, entailing the design of a mechanical press to shape the boards

Activities & Interests:

Piano | Saxophone | Raspberry Pi | Travelling | Vlogging | Event Planning
Green Projects | Photography | Longboarding | Snowboarding | Soccer | Hockey