

Skills

Hardware

Verilog
PCB Design
Assembly
Quartus
Soldering

Languages

Python
C / Embedded
Java
JavaScript
HTML5
CSS3

Software

MATLAB
PSpice / Cadence
Arduino
Linux
AutoCAD

Interests

Arduino
Electronics
Raspberry Pi
Traveling
Music
Electric
Vehicles
Hackathons

Highlights of Qualifications

- In-depth knowledge of **Verilog** and **Digital Systems** seen through coursework
- High proficiency with **C**, **Java**, and **Python** developed through projects
- Strong **communication** and **teamwork** skills developed from work experience

Work Experience

AutoCAD Engineer, Glad-Clorox Orangeville

Summer 2018

- Reduced re-occurring costs down by 3% by designing replacement parts using a 3D-Printer and **AutoCAD Inventor**
- Spearheaded cooling solution for ERIMA Blender resulting in a 5% drop in temperature and positive feedback from plant workers
- Worked directly with third-party vendors and contractors as a project manager

Relevant Projects and Extracurriculars

McMaster Solar Car Project

September-May 2018

- Collaborated with two others to help design and manufacture a battery protection system which manages over-discharge and overheating using a **PIC Microcontroller** and relay
- Developed **time management** skills by multitasking in a deadline-oriented environment

Heart Rate Sensor

January-May 2018

- Designed a Heart rate data acquisition system with an Esduino and **Embedded C**
- Set the E-Clock speed, Baud rate and ADC based on project specifications
- Implemented **MATLAB** to serially communicate with the micro controller and graphically display the heart rate's beats per minute

Python OCR Script

Summer 2018

- Wrote a python script that uses OCR(Optical Character Recognition) to convert images of text to a string
- Created a simple Flask Server that can communicate inside home network using **Raspberry Pi**
- Printed the converted strings by using a thermal printer and an ESP8266 microcontroller

McMaster Delta Hacks 3

January 2017

- Collaborated with a team of four to attempt in creating a meditation app utilizing a MUSE headset and web server within a 36 hour time frame
- Ability to learn quickly and problem solve developed from the 36 hour time constriction

Education

Bachelor of Engineering, Computer (Co-Op)

Expected Completion 2020

McMaster University, Hamilton ON

Relevant Courses: Digital System Design, Data Structures and Algorithms, Microprocessors