# **Khang Nguyen**

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# Highlights of Qualifications

- In-depth knowledge of **data structures** and **digital systems** seen through relevant projects
- High proficiency with C, Java, and Python developed through coursework
- Strong **communication** and **teamwork** skills developed from extracurriculars

#### **Education**

# **Bachelor of Engineering, Computer (Co-op)**

2016 to Present

McMaster University, Hamilton ON

• Recipient of the McMaster Honour Award (\$750) for an admission average of 89%

# Relevant Projects and Extra Curriculars

### **McMaster Solar Car Project**

- Partnered 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
- Strong analytical skills developed through interpreting electronic schematic drawings

#### **Line Following Robot**

- Created an autonomous line following robot that follows a track based on photoelectric sensor values
- Collected and interpreted photoelectric analog values with an **Arduino**
- Designed and programmed a robust claw to pick up and drop off objects that could be driven by a servo motor

#### **First Robotics**

- Worked cooperatively with a team of three to create a robot to participate in the FIRST robotics competition
- Assisted with high voltage battery management system utilizing **Arduino**
- Developed **project management** skills by working within a set budget and meeting teammate and team lead design requirements

#### **Heart Rate Sensor**

- 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
- Wrote technical report following IEEE Standards

## McMaster Delta Hacks 3

- 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

# Technical Skills

Languages: Java, Python, Assembly, C, Embedded C

Programs: MATLAB, PSpice, Quartus, Arduino, Linux, Microsoft Office tools, MP Labs

Hardware: Soldering, PCB Design

# Work Experience

#### Hotel Front Desk Agent, Four Points Niagara Falls

Summer 2017

• Strong communication skills shown through positive feedback from guests