

Brent Champion

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EDUCATION

- Queen's University** **September 2017 – Present**
Bachelor of Applied Science in Computer Engineering
Relevant Courses: Data Structures, Digital Systems, Electronics, Engineering Design and Practice
- Royal Conservatory of Music** **September 2006 – Present**
Completed Conservatory Grade 10 for Piano in 2016 with First Class Honors
Working toward Associate of the Royal Conservatory Diploma for 2020

SKILLS

- Proficient with C, C++, Java, Python and MATLAB
- Experienced in developing algorithms
- Working knowledge of Microsoft Office
- Hard working, strong problem-solving abilities and self-driven learner
- Strong communication skills, written and verbal

EXPERIENCE

- Englinks – Peer Tutor** **April 2018 – Present**
 - Tutored 30+ first year students 1-on-1 in computer programming, calculus and physics
 - Ran extensive course review workshops for groups of 60+ first year students
 - Prepared course review workbooks for 400+ students
- Lowes Canada – Warehouse Associate** **May 2018 – August 2018**
 - Operated Heavy Machinery to organize, prepare and deliver complex orders
- City of Mississauga – Lifeguard and Swimming Instructor** **September 2015 – August 2017**
 - Taught swimming lessons to a variety of people, including toddlers, children with special needs and adults
 - Gained hands-on experience dealing with emergency situations and being a first responder
- Goodyear Select – Automotive Service Technician Apprenticeship** **January 2016 – July 2016**
 - Diagnosed and fixed diverse car problems. Learned proper use of machinery and general shop etiquette
 - Gained a deeper understanding of the underlying systems in a car through building a model V8 engine

RELEVANT EXTRACURRICULARS

- Queen's Formula SAE Design Team – Electrical Team** **September 2017 – Present**
 - Experience designing wiring schematics, testing and developing PCB layouts for various electronic systems
 - Developed a better data acquisition system and more effective ways to manage the car's electrical system
 - Introduced an electronic throttle control system, helping the team achieve faster transient response times and opening new opportunities for software development
 - Gained significant experience working through the process of submitting design proposals, following specific safety guidelines and thoroughly testing designs
- QMIND Summer Cohort** **May – August 2018**
 - Took part in a summer cohort education program focused on Machine Learning and Artificial Intelligence
 - Gained experience applying complex concepts to develop efficient working Machine Learning algorithms
- Western Hacks V** **November 2018**
 - Built and demoed an IoT system which uses API integration and Machine Learning to track a user's grocery shopping to alert them when their food is going bad. The goal was to reduce garbage and financial waste.
- QHacks** **February 2019**
 - Designed a Machine Learning model which was then trained to play the classic "Snake" game. The algorithm and model were developed in Python, using frameworks such as TensorFlow and PyTorch.

CERTIFICATIONS

- Queen's University McLaughlin Hall Machine Shop Training **October 2018**
- National Lifeguard, Standard First Aid w/ CPR – C **July 2015**