**Education**

**Bachelor of Applied Science**, Computer Engineering 2020 - Present

* **Queen’s University**, Kingston, ON
* Relevant Courses: Engineering Design Modules, Algorithms, Database Management Systems, Operating Systems, Discrete Math, Computer Architecture, Networks

**Awards and Special Skills**

* Experience programming with C#, C++, Python, SQL, MatLab, Verilog, Java, Nios II Assembly Language, VHDL
* Experience with GitHub, App Development, Unity, Simulink, Solidworks 3-D CAD Tool, Quartus, and Soldering
* **Silver Medalist**, Next Generation Medical Simulation Hackathon 2022

**Relevant Experience**

**Chief Technical Officer of Software**, Queens Biomechatronic Team, Kingston ON 2022 - Present

* Managing a team of 24 student engineers to design and program a lower body electronic exosuit to allow firefighters to carry more weight
* Using C++ and Arduino to communicate with the motors over a CANBUS network,
* Creating a closed loop algorithm that responds to user feedback gathered with pressure and positions sensors to maximize user comfort and suit efficiency

**Engineering Manager**, Queens Solar Design Team, Kingston ON 2021 - 2022

* Lead a team of 12 student engineers to finish as a Semi Finalist at the US Solar Decathlon
* Designed a net zero electrical usage tiny home that is 46% more efficient than a newly built house of the same size

**Work Experience**

**Game Development Team Lead**, Stem World Education Services, Ottawa ON 2022

* Lead 9 student engineers to design, program, and develop two educational math-based games for children aged 6-10 to be used in the school system
* Used Unity, C#, and Inkscape to create the apps UI, AIs, and backend for both Android and iOS

**Head of Lifesaving Department**, Washago Community Center, Washago ON 2019 - 2020

* Lead the lifesaving department of the Washago Community Center
* Ordered $400 of equipment and created the Centers water-based policies and procedures to allow the campers to safely access the waterfront

**Sprinkler Technician**, Windmill Gardening Center, Orillia ON 2021

* Installed and repaired electrical and hydro based sprinkler systems for the citizens of Orillia

**Volunteer Experience**

**Database Engineer** at Engineers Without Borders, Toronto ON 2022

* Organized and maintained the Engineers Without Borders client databases for client contacts and donations
* Fixed 200 broken database entries and added 450 new database entries

**Food Packager**, The Sharing Place Food Center, Orillia ON 2020 - 2021

* Organizing and packaging 100 food containers each week for the citizens of Orillia