

William Quigley

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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

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

Relevant Experience

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- 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

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- 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

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- 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