

William Quigley

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Education

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| Bachelor of Applied Science , Computer Engineering | 2020 - Present |
| <ul style="list-style-type: none">• 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, 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

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| Chief Technical Officer of Software , Queens Biomechatronic Team, Kingston ON | 2022 - Present |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• Organizing and packaging 100 food containers each week for the citizens of Orillia | |