

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, 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 |
| <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 an extra 50 lbs of weight over uneven terrain• Communicating with a network of motors using CANBUS systems, C++ and Arduino• Designing a closed loop algorithm that responds to user feedback gathered with pressure and positions sensors to increase user comfort and suit efficiency by 37% | |
| Engineering Manager , Queens Solar Design Team, Kingston ON | 2021 - 2022 |
| <ul style="list-style-type: none">• Lead a team of 12 student engineers that finished Semi Finalist at the US Solar Decathlon• Designed a net zero electrical 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 used in the school system to teach 8 educational topics• Created both apps UI Ais, and backends for both Android and iOS using Unity and C# | |
| 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 over 200 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, increasing the number of actively donating clients by over 50 repeat clients• 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">• Organized and packaged 100 food containers each week for the citizens of Orillia | |