

William Quigley

44 Tecumseth St., Orillia, Ont.
(705)-790-9344
789william@hotmail.ca

Education

-
- | | |
|---|-------------|
| Bachelor of Applied Science , Computer Engineering | 2020 – 2024 |
| <ul style="list-style-type: none">• Queen's University, Kingston, ON• Relevant Courses: Engineering Design Modules, Neural and Genetic Computing, Computer Vision, Algorithms, Database Management Systems, Computer Architecture | |

Technical Skills and Awards

-
- **Deans Honor List 2022/2023**, Queen's University
 - **Silver Medalist**, Next Generation Medical Simulation Hackathon 2022
 - Experience programming with C#, C++, Python (Pytorch, Pandas, Scikit-Learn), SQL, HTML, PHP, CSS, MatLab, Verilog, Java, Git, Nios II Assembly Language, VHDL
 - Experience with GitHub, AI Development, App Development, Web Development, Unity, Simulink, Solidworks 3-D CAD Tool, Quartus, Power BI, Microsoft Suite, Power Apps, and Soldering

Relevant Experience

-
- | | |
|--|----------------|
| 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 Arduinos• Designing an innovative 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 new house of the same size by using innovative technologies and professional collaboration and leadership | |

Work Experience

-
- | | |
|---|-------------|
| Programmer/Analyst , Ontario Provincial Police, Orillia ON | 2023 |
| <ul style="list-style-type: none">• Developed an End-to-End Automated Testing Program for the Recruitment and Development Website, increasing testing speed of developers by over 370% and vastly reducing bugs• Developed using C#, Selenium, AutoBogus, and Microsoft's suite of tools such as Dataverse | |
| 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 and ordered \$400 of equipment and created the Centers water-based policies and procedures to allow the campers to safely access the waterfront | |

Volunteer Experience

-
- | | |
|--|------|
| 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 | |