

Michael Stefan

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<https://github.com/MikeGstefan>

Work Experience

E-bots Robotics , Instructor	September 2021 - August 2022
<ul style="list-style-type: none">- Computer programming instructor - C, Python, Scratch- Creation of curriculum - C, Python, Scratch- Ran open houses and community events	
Roberts Farm , Market Vendor	August 2018 - August 2022
<ul style="list-style-type: none">- Manage the sales of thousands of dollars worth of fresh produce- Setup and teardown of a market stand	

Technical Skills

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- C/C++ Programming: 5 years
 - Python Programming: 6 years
 - Rust Programming: 1 year, focused on embedded systems
 - Java Programming: 2 years
 - Git: 5 years
 - CAD: 2 years, creation of 3d printable parts for robotic projects in Solidworks and Autodesk Inventor
 - Embedded Systems: 3 years, Development for software on Embedded and real-time operating systems
 - Linux: 3 years, Development of software to run on single-board Linux computers including Raspberry-Pi and NVIDIA Jetson Nano
 - PCB design: Full cycle development of multiple data processing, power supply and communication boards
 - Microsoft Office: 5 Years, Word, Excel, PowerPoint

Key Extra-Curricular Projects

QVEX , Software Lead for Queens VEX U	September 2022 - Present
<ul style="list-style-type: none">- Management and instruction of a 12-person software development team- Qualified for the world championship as the highest-performing team in Canada- Development of robotic control software and computer vision algorithms- Development of custom PCBs for processing and communication with sensors- Instruction of programming fundamentals - Rust, C++	
QMINDS , Division of AI Research	September 2022 - Present
<ul style="list-style-type: none">- Developing an autonomous medication delivery system- Deep learning-based computer vision- Robotic path and motion planning	
Queens Space Engineering Team	September 2022 - Present
<ul style="list-style-type: none">- Developing software for a satellite as part of a CubeSat project- Python, Raspberry Pi- Worked on a hardware-based watchdog and software safeties for use in space- Development of a telemetry and data logging system for use across 8 onboard subsystems	
Robotics , Software lead VEX for team 5225A π Lons	September 2018 - May 2022
<ul style="list-style-type: none">- Management and instruction of a 14-person development team- Oversaw the complete development of a robot control system- Developed motion and odometry algorithms for autonomous navigation - C++- Built a data analysis and telemetry system - C++, Python- Vex Worlds: 2022 Divisional Finalist Divisional Amaze award for an amazing, well-rounded, and top-performing robot; 2021 Think Award for impressive and effective autonomous programming- X25 Regional, Provincial and Global awards	

Education

Bachelor of Computer Science, Queens University; GPA: 4.03, Graduating '26

Certifications

- Ontario Class G Driver's License	October 2022
- Smart Serve Ontario	May 2023 - May 2028
- Marine Basic First AID, CPR/AED Level C	August 2020 - August 2023
- Canada Pleasure Craft Operator Card	August 2018

REFERENCES AVAILABLE UPON REQUEST