

Meredith Scharlach

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Objective

Motivated and curious third-year Mechatronics and Robotics Engineering student at Queen's University, driven by a passion for robotics and hands-on learning. Focused on applying engineering concepts through projects and collaborative problem-solving, with strong communication and leadership skills.

Skills

- Strong programming skills in C, C++, Julia, MATLAB
- Extensive hands-on experience with Arduino, Itsy Bitsy, VEX, Finch, EV3, mBot, and Studica Robotics systems
- Familiar with SolidWorks, Fusion, Simulink, VHDL, LTSpice for simulation and design
- Experienced with GitHub for version control and Visual Studio Code for development
- Proficient with Adobe Creative Cloud and Microsoft Office Suite

Education

- Queen's University** Kingston, ON
Mechatronics and Robotics Engineering September 2024 - Present
- GPA: 4.07 Deans Scholar Distinction 2024-2026
 - **Coursework:** Mechatronics Systems, Digital Logic, Control Systems, Data Structures & Algorithms, Signals & Systems, Complex Analysis, Engineering Design
- Lawrence Park Collegiate Institute** Toronto, ON
High School 2020 - 2024
- Ontario Secondary School Diploma with Honors

Experience

- Robogal's Queen's** Kingston, ON
Workshop Coordinator, Training Manager, Vice President September 2024 - Present
- Leading robotics workshops in local schools, developing activities that involve students to introduce and spark their interest in robotics and technology.
- Marine Robotics Engineering Technician** Kingston, ON
ESP Labs, Ingenuity Labs Research Institute, Queen's University Summer 2026
- Contributed to marine robotics research on maritime drone search-and-rescue systems and autonomous sailing vessels through hardware development, software integration, and field testing.
- STEM Instructor** Kingston, ON
Science Quest Summer 2025
- Planned and led full-day STEM programs on a variety of topics encouraging creativity and problem-solving
- Instructor** Toronto, ON
Bot Camp Summer 2024
- Taught foundational robotics concepts using VEX IQ and Python coding

Awards

- Aspirations in Computing Award** 2023, 2024
National Center for Women and Information Technology, Ontario Winner
www.aspirations.org [🔗](#)
- Loran Scholar's - Semi Finalist** 2024