

Sam Sheppard

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Skills

Programming languages: Python, Java, C, C++, Javascript, R

Robotics: ROS, ROS2

Web development: HTML, CSS, ReactJS, AstroJS, TailwindCSS

Database management: SQLite

Operating Systems: Windows, Linux

Projects

Paradigm Engineering, Sept 2023 - present
Software Team Lead

- Leading team of 10 computer engineering and computer science students to design an algorithm to autonomously pilot a go kart around a track using Python, C++, ROS2, and Gazebo Classic.
- Set to participate in the Autonomous Karting Series in May 2025.

Personal Website June 2023

- Created a personal website using AstroJS, ReactJS, and TailwindCSS.

FMUNTENTH, Sept 2022 - June 2023
Software Team Member

- Programmed an autonomous RC car using python and ROS and used Rviz to simulate a top down view of the track.
- Participated in the F1Tenth competition in San Antonio, Texas in May 2023.

Education

Bachelor of Science in Computer Science

Memorial University of Newfoundland

St. John's, NL, Canada

Sept 2021 - present

90.4% average

Work Experience

Research Intern, May 2024 - Aug 2024
Memorial University,
St. John's, NL

- Worked with Dr. Andrew Vardy to develop a novel algorithm to gather pucks at a goal location using swarm robotics.
- Implemented algorithms in python on robot hardware
- Utilized CoppeliaSim to simulate robots
- Presented robotics topics in an understandable way to summer camp aged children

Lifeguard, Aug 2019 - present
Ches Penney YMCA,
St. John's, NL

- Ensuring safety of patrons through diligence and adherence to best practices and company guidelines.
- Instructing students of various ages and skill levels on how to swim in a safe and efficient manner
- Promoted to leadership position (Deck Lead) January of 2021; new responsibilities include managing and leading a small group of instructors during swimming lessons as well as solving any problems that occur during lessons

Awards and Scholarships

- Faculty of Science Dean's List 2023-2024
- Undergraduate Student Research Award (\$6,000)
- Faculty of Engineering and Applied Science Dean's List 2021-2022
- Memorial University of Newfoundland Entrance Scholarship (\$2,550)