

Education

- 2026 Concordia University Montréal, QC
- Bachelor of Computer Science
 - GPA: 4.02 of 4.30
 - Dean's list

Employment

- 2025 Software Development Intern, C-CORE St. John's, NL
- Developed FreeRTOS C firmware for the MUNStar-1 Cube-Satellite's ARM SoC: implemented reliable communication protocol over CAN, (de)serialization library, reliable storage module
 - Extended SIL simulation system with mock filesystem (Python)
 - Wrote code generator for system test framework (list of tests to PlantUML statechart)
 - Performed SIL & HIL testing in a cleanroom
- 2021, 2023 Wheel & Tire Technician, WheelTEC St. John's, NL
- Repaired alloy wheels
 - Mounted & dismounted tires
 - Balanced wheels & tires
 - Performed media blasting & painting

Skills

- Programming in various languages—embedded, concurrent, parallel, multicore, networked, distributed, web
- Hand & power tools
- Mechanical skills (automotive maintenance/repair)
- Woodworking
- Stick welding
- Class 5 driver's license with clean record

Hobbies

- Hiking
- Hunting
- Weight lifting
- Computer programming
- Reading

Projects

git.samanthony.xyz

Automotive gauge driver with CAN interface

- Designed and built a circuit board that drives up to six analog gauges using CAN bus data