

# Sam Anthony

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## Education

June 2026      Concordia University      Montréal, QC  
Bachelor of Computer Science. *GPA*: 4.02 out of 4.30.

## Employment

Summer 2025      C-CORE      St. John's, NL  
Software development for the MUNStar-1 Cube-Satellite's MCS, ADCS, C&DH, and simulation systems..

Writing and testing MISRA-compliant C firmware for the Zynq 7000 SoC using FreeRTOS. Implementing reliable communication protocols over CAN, RS-485, and UHF radio networks. HIL testing in an ISO cleanroom.

Summers 2021, 2023      WheelTec      St. John's, NL

Repairing alloy wheels, mounting and dismounting tires, balancing wheels & tires, painting, media blasting.

## Skills

Programming in Ada, C, C++, Go, Java, Python.

Embedded systems design and programming with PIC, STM32, ESP32 microcontrollers; Zynq 7000 SoC; FreeRTOS; state machines.

Concurrent programming with threads, Open MPI, Go, Ada, FreeRTOS. Parallel programming with OpenMP, TBB, OpenCL.

Networking — TCP/UDP/IP, CAN, RS-485, SPI, I<sup>2</sup>C.

## Projects

git.samanthony.xyz

### CAN gauge driver

Receives and decodes CAN frames; drives up to six analog gauges. Hardware (PCB), firmware, software.

### Volute

Graphical turbocharger selection program. Written in C using microui.

## Honors

Dean's list, Concordia University, 2024 and 2025.

## References

TODO