

Zachary Symons

416-993-2464 | zachary.symons@ontariotechu.net | Toronto, ON | [GitHub](#) | [LinkedIn](#)

Highlight of Skills & Qualifications

- Proficient in the following programming languages: Java, C, C++, Python, SQL, NoSQL, MATLAB, Assembly, Kotlin
- Frameworks: Git/GitHub, Microsoft Azure, AWS, Android Studio, VMware, Firebase, Agile/Scrum tools, Arduino, Raspberry Pi
- Excelled in fast-paced environments by adapting quickly to last-minute changes to ensure a successful outcome in both work and studies.
- Collaborative team player with several leadership experiences including capstone projects
- Adaptive and continuous learner demonstrated through further education

Education

Bachelor of Science in Computer Science & Co-op

Expected - Graduation 2027

Ontario Tech University, Oshawa, ON

- Building skills in algorithms, data structures, databases, software engineering, operating systems, and cloud computing.
- Applying Agile practices, secure coding, and version control (Git) in coursework and projects.
- Currently studying courses such as Scientific Data analysis, Analysis & Design of Algorithms.

Advanced Diploma in Computer Engineering Technology

Graduated 2023

Humber College, Toronto, ON

- Specialized in embedded systems, programming (C, C++, Java, Python), networking, and OOP design principles.
- Designed and prototyped custom hardware, including PCB layouts and sensor-based circuits, with applications in IoT and automation.
- Gained hands-on experience with Raspberry Pi, Arduino, and enterprise IT environments, emphasizing problem-solving and debugging.

Work Experience

High-Speed Food Production Filler Operator

July 2020 – August 2025

Lactalis Canada – Brampton Ontario

- Experience in fluid milk production, sanitization protocol and automated PLC.
- Operated troubleshoot PLC controlled high-speed packaging machines, ensuring production efficiency
- Applied knowledge of automation, CIP systems, and sterilization protocols in large-scale production.
- Used SAP systems for tracking, planning, and documenting production cycles.
- Maintained safety, quality, and material standards in a fast-paced environment.

Event Runner

April 2017 and April 2019

Juno Music Awards, Ottawa and London

- Set up and maintenance at music events for Juno Awards weekend events.
- Assisted artists, catering and event staff with several events for Juno Music awards show.
- Thrived in a fast-paced, high-pressure environment, balancing multiple responsibilities while meeting strict timelines
- Adapted to last-minute changes and high-stress situations, ensuring successful event delivery

Projects

Centurion Home Security System - Humber College

April 2022

- Led a team to design a real-time security system with custom PCB hardware, multiple sensors, and embedded software using Agile sprint cycles.
- Built a mobile app with real-time database integration for remote system monitoring and control.

- Managed collaboration and code integration through GitHub version control, ensuring reliable project delivery.

Vehicle Data Logger – Humber College

December 2021

- Developed a Vehicle Data Logger using Raspberry Pi and Arduino to capture GPS, sensor, and environmental data.
- Implemented **data** logging and visualization with CSV/JSON outputs and a Node-RED dashboard.
- Applied embedded systems, sensor integration, and hardware-software interfacing to deliver a functional IoT automation solution.

System administrations on Linux based systems.

April 2023

- Experience with account management, system service management, file systems, and operating system installation and configuration.
- Experience at the server level with installation and configuration of server applications, backup policies, and maintenance of firewalls and print servers.