

# Zachary Symons

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## Highlight of Skills & Qualifications

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- 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

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### 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

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### 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

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### 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.