

ZACHARY SELBY

P 613-967-9221

A 444 Drewery St, Brighton ON K0K1H0

E Zselby@my.centennialcollege.ca

QUALIFICATION SUMMARY

Experience working in fast-paced environments, demanding strong organizational, technical, and interpersonal skills. Trustworthy, ethical, detail-oriented, and resourceful. Confident and courteous in interactions with individuals at all levels.

PRACTICAL EXPERIENCE

Centennial College – COMP 225 2025

- Collaborated on the design and development of an AI-powered meeting summarization tool using NLP and speech-to-text technologies to automate transcription, extract action items, and enhance productivity through secure, multi-platform integration.

Queen's University – ELEC 290 2023

- Collaborated on the design and prototyping of a wearable, Arduino-based ultrasonic obstacle detection system to assist visually impaired individuals with navigating urban environments safely and independently.

Queen's University – APSC 103 2023

- Collaborated on designing and prototyping a modernized, Arduino-based 911 dispatcher testing system for the Toronto Police, replacing outdated hardware with an integrated digital-physical solution to evaluate multitasking and stress resilience.

Queen's University – APSC 101 2022

- Collaborated to develop a functional robotic arm, leading to a prototype that gripped and moved an object vertically and horizontally

173 Royal Tiger Air Cadet Squadron 2015-2022

- Served as Deputy Commander (2019-2021) and Squadron Cadet Commander (2022) where I organized and executed single and multi-day training opportunities for youth
- Mentored and motivated fellow youth in their personal development
- Developed an Aviation Exam study guide, resulting in higher overall success of cadets
- Awarded Commanding Officer's Commendation (2021), Best Cadet (2017, 2021, 2022), Commanding Officer's Leadership Award (2021, 2022), Esprit de Corps Award (2022)

EDUCATION

- AI – SOFTWARE ENGINEERING TECHNOLOGY CENTENNIAL COLLEGE 2024-PRESENT
- B.SC. (ENG) CANDIDATE QUEEN'S UNIVERSITY 2022-2024

KEY SKILLS

- EFFECTIVE COMMUNICATION
- CRITICAL THINKING
- PROBLEM-SOLVING
- LEADERSHIP
- TEAMBUILDING
- MENTORING
- PROJECT MANAGEMENT
- ATTENTION TO DETAIL
- MICROSOFT SUITE
- AUTOCAD

AWARDS

- QUEEN'S UNIVERSITY SCIENCE 1959 ADMISSION AWARD
- QUEEN'S UNIVERSITY PRINCIPAL'S SCHOLARSHIP
- ONTARIO SCHOLAR
- DUKE OF EDINBURGH INTERNATIONAL AWARD – BRONZE, SILVER, AND GOLD LEVEL AWARD RECIPIENT 2019, 2020, AND 2021, RESPECTIVELY
- ROYAL CANADIAN LEGION MEDAL OF EXCELLENCE, 2018

Summer Cadet Training Centre – Senior Staff Cadet 2021-2022

- Supervised and mentored nine staff cadets, scheduling lesson and instructors, and providing feedback
- Liaised with Canadian Armed Forces Personnel, leading to an effective flow of information
- Motivated youth to excel in physical fitness

Batawa Ski Hill – CSIA Level 1 Ski Instructor 2019-2023

- Instructed alpine skiing to children and adults, in group and private lessons
- Differentiated instruction to meet the needs of all students

Duke of Edinburgh International Award 2019-2021

- Set and achieved goals in physical recreation, community service, and a chosen skill, bettering myself and community
- Planned and executed multi-day outdoor adventures
- Developed and implemented a local community-based project, supporting those experiencing homelessness