

Grant Achuzia

✉ grant.achuzia@gmail.com

🌐 gachuzia.com

🌐 [linkedin.com/GrantAchuzia](https://www.linkedin.com/GrantAchuzia)

🐙 github.com/GAchuzia

EDUCATION

Carleton University

Bachelor of Engineering in Computer Systems Engineering

Expected May 2026

Ottawa, Ontario

EXPERIENCE

Lumentum

Jan 2025 – Aug 2025

System Software Solution Test Intern | Design Verification & Test Intern

Ottawa, Ontario

- Launched end-to-end test automation & CI/CD pipelines using GitHub Actions, Node.js, SeleniumWebDriver & the Tauri driver to deploy and validate sensor software installs/releases.
- Designed Bash-based scripts with ssh, gnioic, and core Unix utilities to automate connectivity checks, firmware upgrades, and software regression testing.
- Authored a modular Python CLI report generation tool that automatically produces professional testing reports in PDF, PPTX, and DOCX formats.

Maintenance Drone Co.

May 2024 – Dec 2024

Software Developer Intern

Ottawa, Ontario

- Earned TransportCanada Small RPAS Advanced Operations Certificate & piloted drones to capture high-resolution roof-survey imagery and telemetry for training datasets.
- Engineered a Python flight-planning suite with Shapely & Matplotlib to parse KML/XML geospatial data into optimized drone waypoints, cutting manual setup times.
- Implemented a NumPy-based grid downsampling & noise-filtering algorithm, sanitizing point-clouds while preserving critical geometry for Blender-based AI annotation.

Roof Maintenance Solutions

May 2022 – Dec 2023

Software Developer Intern

Ottawa, Ontario

- Created a Python class to streamline annotation data imports/exports in a custom report generator.
- Implemented regex-powered validation routines to detect and auto-correct XML survey annotation errors, boosting report reliability.

PROJECTS

Kortleck

Your Favorite Card Games All In One Place | JavaScript

-
-

Twit

Simple Version Control System | C++

-
-

TRPL-M

Practice Mental Math In The Terminal/Browser | Python

-
-

ACTIVITIES

Canadian Engineering Competition (National Programming Category)

Mar 2024

Bronze Medalists

Calgary, Alberta

- Optimized routing on a CSV-driven 100×100 grid using an A* Python algorithm with environmental-cost heuristics.
- Developed a responsive web UI in HTML, CSS and JavaScript for visualizing extraction paths.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, C++, SQL, Bash, PowerShell

Technologies: Git, Jira, React, Docker, Flask, Figma, Linux, LaTeX, GitHub Actions

Concepts: Data Structures and Algorithms, DevOps, CI/CD, Computer Architecture, Computer Networking, Agile, Scrum