

TOM HAKLAI

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EDUCATION

Bachelor of Applied Science in Computer Engineering (Second Year), Queen's University **Sep 2022 – Apr 2026**

- **Group Design Project 1:** Design and code an autonomous rover system using Python to avoid obstacles for the Queen's Space Engineering Team in preparation for the University Rover Challenge (URC) in Utah. Tested code using the simulation software, Gazebo.
- **Design Project 2:** Pest Control System using Arduino, C, HTML, and CSS. Involves the use of motion detectors to alert the user whether a pest has entered the vicinity via a notification on the user's phone. The user can prompt the device to make loud noise or produce bright lights from their phone, to scare away pests.
- **Design Project 3:** Create an entire spreadsheet application in C, using data structures and algorithms taught in class.
- **Awards:** Queen's Excellence Scholarship (Entrance Average 90%+)
- **Certificates:** LinkedIn Learning course completion, Learning SQL Programming, HTML, CSS, and JavaScript Essential Training

EXTRACURRICULAR EXPERIENCE

Software Developer, Queen's Engineering Society Software Development Club (ESSDEV) **Sept 2023 – Present**

- Using Flutter and Firebase to create a tool-sharing and service app for IOS and Android
- Expected release date to App Store and Google Play store in April 2024

General Member, Queen's Data Analytics Association **Oct 2023 – Present**

- Learning Python for data science (Pandas/NumPy), and SQL
- Create project in a small group to practice these skills

General Member, Queen's Hyperloop Design Team **Sept 2022 – Aug 2023**

- Worked in a group of three under the Propulsion subsection to research appropriate materials to be used for pod wheel lining and the best-suited method for implementation of the material
- Researched manufacturing sources for polyurethane to be used for wheels

First Year Project Coordinator, Queen's Engineering Competition **Sept 2022 – Jan 2023**

- Emailed sponsors to help fund the event
- Attempted the senior delegate package to provide edits and feedback to competition developers

Electrical Sub-Team, Baja SAE **Sept 2022 – Dec 2022**

- Evaluated electrical components of various screens to be used for the final off-road vehicle
- Learned PCB design basics

TECHNICAL KNOWLEDGE

- **Programming:** C, Python, JavaScript, HTML, CSS, SQL, Flutter, Dart, Firebase, VHDL
- **Tools:** Microsoft 365, Git, Windows OS

ADDITIONAL INFORMATION

- **Languages:** English (Native), French (limited working proficiency), Hebrew (limited working proficiency)
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