

# Calum Eric Graham

Portfolio: [cal-graham.io](https://cal-graham.io)

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## Education

**Bachelor of Applied Science**, *Queen's University Faculty of Engineering and Applied Science* **2018-2023**

- 3.9/4.3 Cumulative GPA, B.A.Sc in Engineering Physics - Electrical Specialization
- Co-author: *Design of a Simulator for Testing Satellite Attitude Determination and Control*
- 2018-2023 Dean's List, Queen's Work Study Program, Applied Science Class of '68 Scholarship, and Victor Alfred Betts Merit-Based Admission Scholarship

## Work Experience

**Operations Consultant**, *Stroud Consulting - London, United Kingdom* **2023-Present**

- Led multiple client improvement teams solving complex and high-value challenges, such as:
  - Identified \$8.2M of raw material waste corresponding to 5K tonnes of CO<sub>2</sub>e
  - Increased capacity of medical-grade product 20% sitewide, without capital expense
- Directed IT globally, enacted accounting, cybersecurity, and cloud service improvements
- Established a Carbon Accounting team designed to attract climate-conscious clients

**Optical Engineering Intern**, *VIAVI Solutions – Ottawa, Canada* **2021-2022**

- Led weekly meetings addressing client needs to maintain and grow \$10M project
- Initiated productivity boost up to 5% through development of a cloud-based logistics applet

**Queen's Work Study Program**, *Queen's University – Kingston, Canada* **2018-2023**

- *Tea Room*: Barista and front of house for Carbon Neutral Café run by Engineering Society
- *Student Ed-Tech Support*: Coordinated the online transition of over 20 university courses
- *Course Design Specialist*: Advised Engineering professors on development of new modules
- *Technical Assistant*: Maintained lab spaces and equipment for post-graduate researchers

## Leadership and Volunteer Experience

**Attitude Determination Control (ADCS) Manager**, *Queen's Space Engineering Team (QSET)* **2018-2021**

- Led a team of engineering and science students developing and launching an ADCS payload on board the CSA's new stratospheric balloon platform
- Developed sub-team roadmap integrating Canadian Satellite Design Challenge (CSDC) design milestones with CSA project requirements

**Gold Award**, *Duke of Edinburgh* **2016-2018**

- Received recognition for investing 500+ hours toward development of personal skills, participation in physical recreation, commitment to volunteer services, and leading no-trace portaging canoe trips through Northern Ontario

**Volunteering Design Work**, *Port Perry Hospital* **2020**

- Designed and manufactured 200+ face shields for hospital staff during COVID shortages

## Skills and Awards

**Case Competition Winner**, *Queen's Conference on Business and Technology (QCBT)*

**Senior Design Challenge Second Place**, *Queen's Engineering Competition (QEC)*

**Satellite Operations Certificate**, *European Space Agency (ESA)*

**Programming**: MATLAB/Simulink, Python, C, HTML, Javascript, Git, IoT

**Languages**: English (fluent), French, German, Mandarin Chinese (intermediate)