

Calum Graham

c.graham@stroudinternational.com

Portfolio: cal-graham.io

Linkedin: [calum-graham](https://www.linkedin.com/in/calum-graham/)

Work Experience

Operations Consultant, Stroud International

2023-

Present

- Owned on-site delivery of projects across North America and Europe, leading client teams and direct reports to deliver solutions to high-value challenges such as:
 - Restructured client's improvement portfolio to more than double its original value, including ~€5M in waste reductions that correspond to ~300 tonnes of CO₂e
 - Identification of ~\$8.2M of raw material waste within a commercial food packer
 - Pinpointed previously unknown phenomenon in decades-old process causing ~10% of waste at a highly regulated medical manufacturing site
- As Global Head of IT, enacted accounting, cybersecurity, cloud service improvements, and created financial dashboards
 - Developed Agentic AI system to boost client discovery through lead generation
- Proposed and established a Carbon Accounting team to support climate-oriented work

Optical Engineer, VIAVI Solutions

2021-2022

- Leveraged Python and Matlab to turn experimental results into client outcomes
- Saved ~5% of internal R&D Engineer time by creating a cloud-based logistics applet

Queen's Work Study Program, Queen's University

2018-2023

- Positions held while studying: Carbon Neutral Cafe run by Engineering Society, multiple Engineering course development roles, and Civil Engineering Lab Technical Assistant

Education

Bachelor of Applied Science, Queen's University, Faculty of Engineering and Applied Science

2018-2023

- B.A.Sc in Engineering Physics - Electrical Specialization, Dean's List
- Co-author: [Design of a Simulator for Testing Satellite Attitude Determination and Control](#)
- Applied Science Class of '68 Scholarship, and Victor Alfred Betts Scholarship recipient

Volunteer Experience

Attitude Determination Control (ADCS) Manager, Queen's Space Engineering Team (QSET)

2018-2021

- Led a team of engineering and science students in development and launch of an ADCS payload on board the Canadian Space Agency (CSA) new stratospheric balloon platform
- Led sub-team through integrating Canadian Satellite Design Challenge (CSDC) design milestones with CSA project requirements

Non-Academic Volunteering

- Duke of Edinburgh Gold Award: Received recognition for investing 500+ hours towards team sport, volunteer services, and leading no-trace portaging trips in Northern Ontario
- Designed and fabricated face shields for hospitals during COVID shortages

Skills and Awards

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

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

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)