

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)*