

Samuel Smith

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EDUCATION

Carleton University

B. Eng. Biomedical and Mechanical Engineering, Co-op Program

Ottawa, ON

PROJECTS

I-CUREUS

Carleton University

Ottawa, ON

January 2026 – April 2026

- Created a low-cost accessible and interactive microscope to encourage high school students to continue their education in Engineering related fields.

Automated Biomedical Lab Equipment (ABLE) - Microscope

Carleton University

Ottawa, ON

September 2025 – April 2026

- Designed and prototyped an automated microscope which integrates with an automated scanning stage designed to image histological samples and automatically process the images and scan for sample defects.

Ontario Engineering Competition (OEC) 2023/2024

Carleton University

London, ON (2023), Kingston, ON (2024)

January 2023 and January 2024

- Finished 2nd place in the Bio-Engineering category at OEC 2023 by designing a system to reuse *Streptomyces* contaminated wheat via transformation into biofuel and bio bricks.
- Finished 1st place in the Bio-Engineering category at OEC 2024 by designing a system to provide clean and accessible energy to Indigenous communities.

WORK EXPERIENCE

Enviri Energy Solutions

Engineering Intern

Ottawa, ON

May 2024 – August 2025

- Analyzed building CO2 emissions and energy usage to provide in depth ORA Carbon Studies to multiple Ottawa Community Housing mid- and high-rise buildings, providing key pathways to net-zero buildings and reduced energy usage by completing numerous site visits to spec-out existing equipment, insulation and building construction to look for possible carbon saving measures.
- Created complex Microsoft Excel spreadsheets to analyze heat pump performance, perform building energy analysis, analyze heat pump boiler performance and account for HRV systems.

EXTRACURRICULAR ACTIVITIES

Biomedical Applied Research and Engineering Team (BioCARE)

Founder and President

Ottawa, ON

January 2024 – April 2026

- Founded a myoelectric prosthetic design team to give Biomedical Engineering Students at Carleton the chance to gain real life experience in prosthetic design.
- Managed a team of 20+ plus executives and directors and oversee the whole design team, including key design concepts, events, meetings, finances and administrative tasks.

The Hybrid Hobbyists

Co-Founder

Ottawa, ON

March 2024 – Present

- Spearheaded the organization of a six-person team to train for and complete the Ironman Ottawa 2025 to raise funds for the Canadian Cancer Society. Raised over \$26,000 through news, radio and social media outreach.

Ontario Engineering Competition (OEC)

Vice President Competitions

Ottawa, ON

September 2024 – January 2026

- Oversaw a team of 21 directors, to create and lead engineering design challenges for the Ontario Engineering Competitions 2026, the largest Engineering Competition in Ontario.

TECHNICAL SKILLS & INTERESTS

Skills: Microsoft Office | Fusion360 | SolidWorks | MATLAB | Leadership | Management | Bilingual

Interests: Innovation, Business, Public Speaking, Charity Work, Triathlon, Running, Hiking, Photography