CAMERON **LAWRENCE**

University of Waterloo | Architectural Engineering

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PROFESSIONAL SUMMARY

Architectural Engineering student with years of experience in various coop positions specializing in building science and structural rehabilitation. Vast engineering experience from companies across Canada. Excels in collaborative settings, proficient in various software, and always eager to take on a new challenge.

PROFICIENCIES

- AutoCAD
- Revit
- Rhino 7
- Sketchup
- Enscape
- Catia V5
- Adobe Creative Cloud
- Microsoft Office

EDUCATION

Bachelor of Applied Science, BASc
Architectural Engineering, University of Waterloo
2020-2025

International Baccalaureate Diploma
Park View Education Centre
2017-2020

ACCOLADES

International Concrete Repair Institute Award | 2022
Scholarship for continued studies in concrete

MTE Capstone Pitch, University of Waterloo | 2024
Awarded 2nd place design team for "*The Modular Median* as Building Envelope + Structural Lead

President's Scholarship, University of Waterloo | 2022
Granted to students with an average above 90%

Ghandi STEM Award, PVEC | 2020
Presented to the two graduating students who most have most excelled in the STEM fields.

Queen Elizabeth II Medal, PVEC | 2020
Awarded to the student showing superior academic achievement, having an outstanding record in school and community involvement.

Scholar Athlete, PVEC | 2020
Awarded to the student who best overall excels in their academics and athletics.

Lieutenant Governor's Medal, PVEC | 2019
Presented to two students based on excellence in academics, leadership, and service.

EXPERIENCE

BUILDING SCIENCE TECHNICIAN

FORSMITH Building Science Consultants | Burlington, ON | 2023-2024

- Conducted extensive structural assessments on underground parking garages and balconies for a mid-rise residential building and developed subsequent remediation plans
- Utilized **ground penetrating radar** (GPR) equipment to locate rebar for corrosion testing in accordance with ASTM D6087 & ASTM D4580
- Conducted **half-cell potential testing** to identify areas of corrosion within steel reinforcements in accordance with ASTM C876 in failing areas along expansion joints

BUILDING ENVELOPE / STRUCTURAL TECHNICIAN

FORSMITH Building Science Consultants | Burlington, ON | 2022 -2023

- Developed comprehensive remediation plans and frequent site reports for deteriorated concrete walls and slabs caused by a diesel leakage using **AutoCAD** and **Microsoft Office**
- Executed water testing to simulate precipitation on failing building envelopes to investigate causation of excessive water intrusion
- Demonstrated extensive knowledge of building science through designing efficient reactive approaches to building envelope failures through many varying wall assemblies

UNDERGRADUATE RESEARCH ASSISTANT

University of Waterloo | Waterloo, ON | 2023

- Operated hydraulic and electro-dynamic shake table to conduct structural identification investigations through **simulating earthquakes** on scaled structures
- Calibrated sensors, accelerometers, and excitation devices to accurately measure and characterize properties of structural testing using an integrated data acquisition (DAQ) system
- Prepared an extensive user operation guide for the **hydraulic and electro-dynamic shake tables** used in the University of Waterloo's structures lab

MANUFACTURING ENGINEERING TECHNICIAN

STELIA North America | Lunenburg, NS | 2021

- Conducted a gap analysis of Operational Data Sheets to support an outdated manufacturing processes used in production of aeronautic parts for Bombardier's Canadair division
- Instated an interactive facility plan using **CATIA V5** allowing the toggle of various elements including equipment, emergency devices, air supply lines, etc… to be used in daily facility operations
- Generated instructive technical documents for production staff in the construction of composite parts used in the aerospace industry

ARCHITECTURAL DRAFTING TECHNICIAN

Servant, Dunbrack, Mckenzie & MacDonald | Halifax, NS | 2021

- Digitalized assets for the Department of National Defense by developing general and area management plans in **AutoCAD** based on laser scanned PointCloud data of Royal Military College properties
- Analyzed details against extensive technical requirements to allow input into the Department of National Defense Spatial Warehouse
- Manipulated three-dimensional PointCloud data in Autodesk Recap and **AutoCAD** to develop facility plans with high accuracy