

# Cameron Bentley

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## EDUCATION

### UNIVERSITY OF WATERLOO

#### BASC IN MECHANICAL ENGINEERING

Expected 2021 | Waterloo, ON

## SKILLS

### PROGRAMMING

Experienced

C++ • VBA • Bash • HTML

Basic Knowledge

Python • JavaScript • CSS • Git

Versioning

### CAD/TECHNICAL DRAFTING

CAD & Markup Software

SolidWorks • AutoCAD • Fusion 360 •

BlueBeam Revu

Competencies

GD&T • P&IDs • DFM

### SYSTEM ADMINISTRATION

Operating Systems

Linux • Windows Server

Software

MySQL • Docker • Hyper-V • apache •

nginx • WordPress

Office Software

Word • Excel (VBA, Power Pivot, Power

Query) • PowerPoint • LaTeX • Photoshop

## COURSEWORK

Electrical Circuits & Instrumentation

Electromechanical Devices & Power

Processing

Structure & Properties of Materials

Control of Properties of Materials

Mechanics of Deformable Solids

## ADDITIONAL INFO

Citizenship

Canadian & EU Citizenship (UK)

Interests

Computers • Aerospace • Robotics •

Automotive

Links/Social Media

Website: [bentley.sh](http://bentley.sh)

GitHub: [cjbentley](https://github.com/cjbentley)

LinkedIn: [cameron-bentley](https://www.linkedin.com/in/cameron-bentley)

## SUMMARY OF QUALIFICATIONS

I am a highly motivated second-year Mechanical Engineering student with strong programming, design, & administration skills. I am ambitious to further develop my skills through challenging work and project experience, as well as to experience different industries and locations. I am capable of working in high-performance groups as both a leader and a member. My interests and skills are focused around computer hardware and software, aerospace, and automation.

## EXPERIENCE

### AECON GROUP INC. | ENGINEERING INTERN

May 2017 - August 2017 | Fort St. John, BC

- On-site intern during a gas cogeneration facility turnaround operation.
- Assisted with project controls, planning, scheduling, QC, and reporting.
- Developed red line corrections and P&ID's for in-field revisions to IFC drawings.
- Automated reporting and other office processes with Power Pivot and VBA.

### WATSAT SATELLITE DESIGN TEAM | STRUCTURES SUBSYSTEM LEAD

September 2016 - Present | Waterloo, ON

- Designed components for CubeSat satellite structural redesign.
- Collaborated with other subsystems to integrate attitude control hardware and communications antennas into the satellite frame.
- Documented and simulated structural design properties for presentation at the Canadian Satellite Design Challenge's CDR (Critical Design Review).
- Developed understanding of DFM and designing to specification (maximizing resistance to stress while minimizing weight and cost to manufacture).

## PROJECTS

### AIM ENGINEERING CHALLENGE | 1<sup>ST</sup> PLACE GROUP LEADER

January 2016 - May 2016 | Calgary, AB

- Challenge set by Alta Injection Molding (AIM) to improve the design of a reusable coffee pod for a Keurig machine.
- Developed & tested a new prototype and presented this prototype to the competition host.
- Group placed first; company integrated suggested changes into new pod design.

### AUTOMATED FORKLIFT MODEL | GROUP MEMBER

January 2017 - April 2017 | Waterloo, ON

- Developed a model automated forklift for a course project, capable of sorting inventory into different colour coded areas (written in RobotC).
- Received score of 5/5 for robot performance.

## CERTIFICATIONS

2017 H<sub>2</sub>S Alive

2017 WHMIS

## AWARDS

2016 President's Scholarship

University of Waterloo

2016 Alexander Rutherford Scholarship

West Island College