

# Aidan Bruneel

SYSTEMS ENGINEER · EDUCATOR · SOFTWARE DEVELOPER

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## Work Experience

### Teacher of the Deaf

ROBARTS SCHOOL FOR THE DEAF

- Plan and deliver lessons to Deaf students for secondary courses in Mathematics, Science, and Technology.
- Collaborate with ASL Interpreters to establish clear STEM vocabulary between English and ASL.

London, ON  
Jan. 2022 - Feb. 2022

### Process Engineering Leader Intern

SCHAEFFLER CANADA, INC.

- Item.
- Item.

Stratford, ON  
May. 2019 - Aug. 2020

### Product Design Student Engineer

CONTINENTAL TIRE CANADA, INC.

- Apply detailed GD&T to engineering drawings for machinists to manufacture fixtures and performance equipment.
- Item.

Chatham, ON  
May. 2018 - Aug. 2018

### Product Testing Student Engineer

CONTINENTAL TIRE CANADA, INC.

- Design measurement fixtures to test all product lines for vibration, pressure leak/vacuum, corrosion resistance, etc.
- Compile and visualize test data to then present to product design engineers.

Chatham, ON  
May. 2017 - Aug. 2017

## Projects

### Haptic Guidance System to Assist Blind Persons to Locate Points of Interest

WESTERN UNIVERSITY

- Item.
- Item.

London, ON  
Sep. 2020 - Apr. 2021

### Production Launch of Honda Wheel Bearing

SCHAEFFLER CANADA, INC.

- Item.
- Item.

Stratford, ON  
May. 2019 - Aug. 2020

## Education

### BESc Mechatronic Systems Engineering

WESTERN UNIVERSITY

- **Courses:** Robotic Manipulators, Control Systems, Embedded Systems, Microprocessors, Image Processing, Signal Processing.
- **Academic Awards:** Dean's Honour List (2021), Dean's Honour List (2019), Dean's Honour List (2017), Scholarship of Excellence (2016).
- **GPA:** Overall = 3.7/4.0. Two-Year = 3.9/4.0.

London, ON  
Sep. 2016 - Apr. 2021

## Awards & Certifications

### AWARDS

2017 **NSERC Experience Award**, NSERC

Chatham, ON

### CERTIFICATIONS

2019 **Certified SolidWorks Associate in Simulation**, Dassault Systèmes

London, ON

2017 **Certified SolidWorks Associate in Mechanical Design**, Dassault Systèmes

London, ON

2017 **Advanced Metal Shop Training**, Western University

London, ON

## Technical Skills

### LANGUAGES

**C++** **C** **Python** Visual Basic for Applications (VBA) Java Assembly **L<sup>A</sup>T<sub>E</sub>X** **Proficient** **Familiar**

### TOOLS

**Arduino** **SolidWorks** **Catia V5** **Matlab/Simulink** **Visual Studio** Visual Studio Code Git/GitHub

### FRAMEWORKS & LIBRARIES

**OpenCV** **NumPy** ROS TensorFlow Matplotlib