

SUMMARY OF QUALIFICATIONS

- Experienced with **AutoCAD** and **SolidWorks** (plotting, modelling, static simulations)
- Proficient in **C++** and **Python** (TensorFlow, NumPy)
- Familiar with **HTML**, **CSS**, **JavaScript** (web development), **MATLAB**, **SQL**, and **VBA**
- Skilled with **Microsoft Word**, **PowerPoint** and **Excel** (Macros, Functions, PivotTables)
- Familiar with **engineering drawings** and **GD&T**
- Experienced with **machining**, including the **mill**, **lathe**, **laser cutter**, and **3D printer**

EXPERIENCE

- Jan 2021 – **Junior Energy Analyst** *Rushby Energy Solutions Inc.*
- Apr 2021
- Pitched idea and developed a web tool that creates energy benchmark reports for public buildings based on 2 million data points. The tool is hosted at psebtool.ca
 - Performed on-site lighting audits for 20 university buildings outlining recommendations and potential savings
 - Performed regression analysis for energy consumption models in RETScreen and Excel
 - Evaluated clients' building performance and created professional reports in Word
 - Nominated for the UW Co-op Student of the Year award
- May 2020 – **Online Skills Development Assistant** *University of Waterloo*
- Aug 2020
- Liaised between professors and the Student Association to create educational modules for engineering students
 - Connected with advisors and co-hosted info events outlining University resources
 - Worked with Mech. Eng. professors to enhance first-year course content
 - Led in a team to develop plans to improve waste management on campus
- Jul 2015 – **Lead Summer Camp Counsellor** *Cybercamp Robotics Academy*
- Aug 2018
- Gave 20 - 40 minute daily lessons on LEGO robot design and ROBOTC to 30 campers
 - Designed and organized activities ranging from robotics competitions to games

PROJECTS

- 2019 – Present **Midnight Sun Mechanical Designer**
- Designed and manufactured autobody components of a solar-electric car
 - Reduced door mold cost by 28% through SolidWorks analysis
 - Supervised the production of the body and liaised between various sub-teams to ensure manufacturing accuracy and correct timeframe
 - Provided SolidWorks and engineering drawing training for new members
- 2017 – 2019 **Charger Sleeve**
- Designed an arm sleeve that can charge various devices using body heat
 - Collected data using Arduino sensors and performed analysis in Excel
 - Presented to experts and received the silver award in the Toronto Science Fair

EDUCATION

- 2019 – Present Candidate for B.A.Sc. Mechanical Engineering *University of Waterloo*

INTERESTS

- **Programming** – proactive learner, developed many small projects using various languages
- **Team sports** – played 3 years of AA volleyball and basketball, active in intramural sports
- **Chess** – 2000 ELO rating, 99th percentile on chess.com and member of the Chess Club