

Elvis Cheung

Mechatronics Engineering 1B



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Summary

- Proficient with modelling Solidworks, Fusion 360, and AutoCAD.
- Application of skills into product design and development.
- Familiar with C++ and Python programming.
- Communication, teamwork, and leadership skills portrayed through a variety of projects.

Skills

- **Programming**
 - C++, Python
- **Tools**
 - Solidworks, AutoCAD, Fusion 360
 - Excel
- **Languages**
 - English, French

Work Experience

• **Mechanical Engineering Design Technologist** | June 2021 – August 2021 |

3S International Inc., YYZ Lighting, Pickering, ON

- Designed and developed lighting solutions using 3d modelling and simulations through Fusion 360
- Collaborated with R&D and manufacturers to create pertinent products satisfying customer needs.
- Created 3D printed and metal prototypes to ensure the finished product will be manufacturable and effective upon use.

Projects (elvischeung.me)

• **Conveyor System Design Project**

- With a small group, designed a box sorting conveyor system for a course project. The design was modelled using manufactured parts found through various online sources. Throughout the process, the designs and written reports were presented and submitted.

• **Phone Stand Design**

- Prototyped a 3D printed phone stand modelled through Solidworks implementing the design process and the restriction of several criteria and constraints.

• **SplitStub**

- A program that allows the user to scan the items listed on a grocery receipt to track their spending and divide the costs for shared receipts. Programmed using the Pytesseract library for optical character recognition through Python.

Extracurriculars

• **ESSMT (Erindale Math Tournament) Organizer** | November 2019 - February 2020 |

(Erindale Secondary School, Mississauga, ON)

- Organized a school-wide mathematics competition with over 50 participants.
- Aided in the search for sponsors, promotion of the event, and the creation of the website.

Education

University of Waterloo, Waterloo, ON (2020 - present)

- Bachelor's of Mechatronics Engineering

Erindale Secondary School, Mississauga, ON (2016 - 2020)

- International Baccalaureate Certificate Program

Interests

- Arduino, Raspberry Pi, Badminton, Sketching and Painting, Piano