

# Elvis Cheung

## Mechatronics Engineering 1B

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### Summary

- Proficient with modelling on AutoCAD and Solidworks
- Experience in C++ and Python programming
- Excellent leadership skills through the planning and organization of a school-wide mathematics competition
- Communication, teamwork, and leadership skills portrayed through a variety of projects

### Skills

- **Programming**
  - C++, Python
- **Tools**
  - Solidworks
  - AutoCAD
  - Excel
  - Microsoft Office

### Projects - [github.com/EC28](https://github.com/EC28)

#### • 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 Stands

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

- Designed a mounted phone stand that can be clipped to the side of a computer screen modelled using Solidworks.

#### • Text Summarizer

- Coded / developed an application using Python that outputs the sentence that best summarizes the user's input text.

### Experience

#### • 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.

#### • Skills Ontario Camp Leader Assistant | July 2017 | (Hamilton, ON)

- Organized activities to keep the participants engaged in the camp.

- Collaborated with the camp leaders to organize and lead group activities.

- Resolved any arguments and conflicts among feuding participants.

### 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