

# KAYNE CHU

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## Summary of Qualifications

- Experienced in **AutoCAD** and **SolidWorks**
  - Strong knowledge in **C++**, **Java**, **JavaScript**, **ReactJS**, **HTML** and **CSS**
  - Knowledgeable on Dimensioning and **GD&T** communication
  - Exceptional **Communication** and **Organization skills** through tutoring students while focusing on studies
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## Projects

### Waterloo Midnight Sun Design Team – Battery Module Supports Sept 2020 - Present

- Designed supports for battery modules to prevent them from slipping using **SolidWorks**
- Collaborated with team members to create a sketch which properly incorporates the required features
- Followed an iterative design process to meet constraints and criteria

### Animal Climber Toy Design Project Sept 2019 – Dec 2019

- Designed a wind-up toy using **SolidWorks** and the engineering design process to fulfill constraints and criteria
- Constructed an enclosure for the wind-up box and a track for the toy using **3D printed** parts

### Personal Website June 2020 – Sept 2020

- Developed a website highlighting personal accomplishments and showcasing skills in the engineering field using **JavaScript**, **HTML**, **CSS**, and the **ReactJS** library
- Attained **problem solving skills** by developing solutions to advanced coding problems and debugging errors

### Java Mobile Game June 2020 – Aug 2020

- Developed a score-based mobile application that involves player interaction with a virtual character using knowledge in **Java** and **Android Studios**
  - Worked through several iterations to fix issues that arose in the application
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## Experiences

### Private Math Tutor / Self Employed – Richmond Hill, ON Dec 2018 - June 2019

- Broadened **analytical skills** by tutoring high school and elementary students in advanced functions, calculus, and other mathematical concepts
- Gained **problem solving skills** by implementing various teaching methods that catered to the individual student's needs while balancing studies with optimal **time management**

### ReStore Volunteer / Habitat for Humanity – Markham, ON July 2018 – Oct 2018

- Demonstrated **professionalism** through interactions with customers and employees
  - Portrayed **teamwork** by working with other volunteers to unload deliveries and accept donations
  - Displayed **leadership skills** by designating responsibilities for other volunteers when employees were occupied
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## Education

### Bachelor of Applied Sciences – Mechanical Engineering Co-op 2019-2024 University of Waterloo – Waterloo, ON

### Ontario Secondary School Diploma 2015-2019 Jean Vanier Catholic High School – Richmond Hill, ON

- Principal's list recipient for top 5 averages in the class of 2019
- 4 years French award recipient