

# ANTHONY QIU

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## SUMMARY OF QUALIFICATIONS

- 2+ years of 3D modeling experience with Solidworks and Revit, with 4 projects completed utilizing this skill.
- Experience creating technical drawings with Solidworks and AutoCAD.
- Experience in 3D printing
- Experience performing needs analysis via schoolwork and projects.
- General skills in java (5 years), python (1 year), and C++ (half a year).
- Bilingual in English and Conversational Mandarin.

## PROJECTS

### Launcho | *The spring powered toy rocket launcher*

Sept 2022 – Dec 2022

- Modeled and assembled individual parts using Solidworks, preparing the team for construction of the design.
- 3D printed unique parts using the model.
- Machined certain parts using lathes, mills, and vertical bandsaws.

### Saitama | *A general purpose discord bot/application*

Jun 2021 – Aug 2021

- Programmed using python, making use of classes and functions, maintaining the organization of the code.
- Utilized json files to store user information and updated it with python code.
- Used external libraries stored in a virtual environment to complete more advanced tasks such as playing audio via YouTube video.

## EXPERIENCE

### Crew Member

Jul 2021 – Jul 2022

McDonalds, Markham, ON

- Worked in a high intensity kitchen to prepare food for customers by using effective and concise communication.
- Taught new crew members skills by thoroughly explaining and demonstrating new concepts.
- Demonstrated flexibility by taking on a wide variety of tasks ranging from kitchen work to cleaning.

### Co-op Student

Feb 2021 – Jun 2021

WizRobotics Markham, ON

- Web scraping contact information for a large-scale competition using python and selenium (an automation tool), playing a crucial role in gathering participants.
- Participated in a large robotic competition as a judge. Closely analyzed and scored participant work based on design, planning, technicality, and innovation.

### Volunteer Camp Assistant

Mar 2020 – Mar 2020

Venom Volleyball, Richmond Hill, ON

- Instructed volleyball techniques through demonstrations and guided practice.
- Supervised children during drills and games, ensuring their safety.

## EXTRACURRICULARS

### Propulsion Team Member

Sept 2022 – Present

Waterloo Rocketry, University of Waterloo, Kitchener, ON

- Researched compatibility between 2000-series aluminum alloy and Nitrous Oxide, then presented the results in a written report.
- Researched unwanted feed system oscillations found during cold flow test and suggested a solution which resulted in the elimination of these oscillations.
- Sourced a pressure regulator with unique requirements by contacting various companies (acquired sales quotation).

## EDUCATION

### Honors Mechanical Engineering (BASc.)

Sept 2022 – Present

University of Waterloo, Kitchener, ON

- Term Average: 89.18%.