**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 too), 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%.