ANTHONY QIU

EMAIL: abqiu@uwaterloo.ca   **PHONE:** 647-917-8891   **WEBSITE & PORTFOLIO:** anthonyq.me

SUMMARY OF QUALIFICATIONS

- 2+ years of **CAD design** experience using Solidworks and Revit, with 4 projects completed utilizing this skill.
- Experience creating **technical drawings** with Solidworks and AutoCAD, applying **GD&T** specifications.
- Experience in **3D printing**.
- Experience in **FEA analysis** using Solidworks.
- Experience performing **needs analysis** via schoolwork and projects.
- General skills in **java** (5 years), **python** (1 year), and **C++** (half a year).

EDUCATION

Honors Mechanical Engineering (BASc.)   Sept 2022 – Present
University of Waterloo, Kitchener, ON
- Term Average: 89.18%.

PROJECTS

Launcho | *A spring powered toy rocket launcher*   Sept 2022 – Dec 2022
- Documented constraints & criteria and technical progress in the form of a **professional design report**
- Modeled and assembled individual parts using Solidworks, preparing the team for construction of the design.
- 3D printed unique parts using the Solidworks 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).