**ANTHONY** QIU

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**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).