Shaun Plassery | Engineering I (Free Choice)

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Summary of Qualifications

- Proficient with **Python, Java, HTML, CSS, JavaScript and Bootstrap Framework** getting 99% in the intro to programming course.
- Familiar with **Tinker CAD**, having used it for previous projects and started working on **AutoCAD Inventor** in university. Have used the computational app and plugin **ImageJ** for surface area analysis.
- Technical prowess shown through taking small engines class in high school and getting 98% in the course.
- Strong communication skills, developed through teaching and volunteering.
- Leadership and teamwork skills refined with student council and team sports.

Experience

TEACHING INSTRUCTOR- KUMON MATH AND READING CENTRE — JUNE 2018 – DEC 2022

- **Marked** students work from all difficulties in both Math and English.
- **Planned** and implemented engaging activities for elementary and high school students.
- Answered **questions** in the math and English field as well as **parent inquiries.**
- Implemented **homework plans** for the students in between their Kumon sessions.

INTERMURAL SPORTS HEAD — SEPT 2021 – JUNE 2023

- Led the first intermural program at school with **over ¼ of the school** participating.
- Ran a **faculty vs student** dodgeball event with great success.

Projects

OPTIMED CANADA — JULY 2022 – DEC 2022

- **Programmed a prototype app** and website that can pre diagnose illness and send data on the patient's pain, where they need attention and personal information to doctors before the patient arrives to hospital.
- **Devised a CAD model** for the companion device which can be used as well to assist in sending data.
- Engineered a **Machine Learning Software** to recognize where in the body an injury occurred on Visual Studio Code and OpenML.
- Done through a summer enrichment camp called **SHAD** in a team of 6 people, receiving valuable teamwork skills and programming knowledge in Java, HTML and CSS. Received **$1,000 of funding** from Ontario Tech University, with **preliminary testing** done at hospitals.

AERODYNAMICS WINGS COMPETITION — JULY 2022

- Created **3 functional airplane wings**, 3D printed them and tested their force, endurance, and electricity potential against multiple teams.

PHYTOREMEDIATION OF CRUDE OIL: EFFECT OF RHIZOBIUM AND KELP ON OIL STRESS (v1 & v2) — DEC 2019- MAY 2021

- A **3-year project** built upon a science fair project in grade 8 on how to **combat oil spills.** In this project, I found valuable research to how to dispose of collected oil after an oil spill using plant enhancers along with specific plants.
- Worked at the **Trent University Science Emery Laboratory** and worked along with Prof. Anna Kisiala.
- Got **multiple silver medals** and ribbons at the Canada Wide Science Fair and presented it to investors at **Yorks Lassonde School of Business.**

MOVIE TICKET MAINFRAME APPLICATION — MAY 2023 -JUNE 2023

- Created a **GUI** cinema movie ticket selector and paying application using **Java** on NetBeans.

Activities and Interests

RUBIK CUBES — June 2011 - Present

- Enhanced my **problem-solving skills** learning many types of Rubik cubes by myself without the computer.

BASKETBALL — Sept 2019 - Present

- Built my **teamwork skills** playing for my school team all 4 years as a shooting guard.
- In grade 9, we got COSSA (Regional) silver medal, and in grade 12, we got 4th in OFSAA (Provincial) championships.

Education

HIGHSCHOOL DIPLOMA, KENNER COLLEGIATE, PETERBOROUGH

- **IB Program**- HL- Physics, English and Chemistry

BACHELOR OF ENGINEERING, B. ENG, MCMASTER UNIVERSITY

- Expected graduate in spring 2028