Kevin Li

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Education

University of Waterloo | Waterloo, ON — Sept. 2020 – (Expected) April 2025
- Candidate for B.A.Sc., Mechatronics Engineering, Honours
- **Weighted Average:** 96.0% (4.0 GPA)

John Fraser Secondary School | Mississauga, ON — Sept. 2016 – June 2020

Skills

Languages:
- **Proficient:** C++, Python
- **Familiar:** HTML, CSS

Tools:
- SolidWorks, AutoCAD, Arduino, Bootstrap, LaTeX, Microsoft Excel, Altium Designer, GrabCAD Print, GD&T

Experience

Midnight Sun Design Team (Solar Electric Vehicle) — University of Waterloo
Electrical-Hardware Subteam Member — Sept. 2020 – Present
- Researched and proposed various sensor implementations for a collision avoidance system
- Developed basic PCB design and board review skills with Altium Designer
- Developed familiarity with Confluence to communicate task progression and access relevant team resources

HOSA (Health Occupations Students of America) — John Fraser Secondary School
Club President — Sept. 2019 – June 2020
- Led and managed a team of executive training coordinators by scheduling bi-weekly meetings to delegate specific tasks and gain updates on training progress
- Managed the registration process and transportation logistics for a two-day excursion to the national level of competition, HOSA State Leadership Conference (SLC)
- Designed social media advertising content, attracting over 180 students in attendance at recruitment meetings

Math and Science Senior Scholars — John Fraser Secondary School
Tutor — Sept. 2019 – June 2020
- Provided ambitious students with tutoring in mathematics, physics, chemistry, and biology between school hours with the focus of training an intuitive understanding of concepts
- Created challenging mathematics practice assessments composed of difficult thinking questions for classmates using LaTeX to exercise problem solving and analytical skills

Projects

Goose Escape | C++ — Nov. 2020
- Programmed a two-dimensional level-based arcade game using C++ and the BearLibTerminal library where a player attempts to reach safe zones while being chased by an NPC in the form of a goose
- Implemented fully randomized map generation and adjustable NPC intelligence to enable the ability to increase and modify the complexity and difficulty of the game as it progresses

Cellphone Stand | SolidWorks, GrabCAD Print — Nov. 2020
- Created a retractable cellphone stand with two hinge mechanisms using SolidWorks suitable for 3D printing
- Developed familiarity with 3D printing logistics and optimizing material usage with GrabCAD Print

Personal Portfolio Website | HTML, CSS, Bootstrap — Jan. 2021
- Designed a fully responsive portfolio website using HTML, CSS, and Bootstrap with several animation features

Awards

President's Scholarship of Distinction — University of Waterloo | Aug. 2020
- The entrance scholarship awarded by the University of Waterloo for achieving an admissions average of above 95%.

Graduate Academic Award — John Fraser Secondary School | Jan. 2021
- Rewarded for graduating with the highest average calculated on six senior level courses (98.7%) in the 2019-2020 school year at John Fraser Secondary School.

HOSA SLC and HOSA ILC (National and International) — HOSA Canada | Apr. and June 2019
- Placed 4th and Top 32 in the event category 'Biomedical Debate' at the national and international level HOSA competitions respectively (HOSA SLC 2019 & HOSA ILC 2019)