JEFFREY FENG

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SKILLS SUMMARY

- **Programming /** Proficient in C# and C++; familiar with MATLAB and JAVA
- **Computer Aided Design /** Knowledge in SolidWorks; working knowledge with Eagle and COMSOL
- **Application Development /** Practiced Android Studio, Unity, HTML5, CSS, and XML
- **Systems Design /** Experienced in systems integration, human factors, test design, and accident analysis
- **Laboratory /** Plastic and polymer processing at the University of Michigan

RELEVANT PROJECTS

2018 - Present **Waterloop – Canada's Hyperloop**, Electrical Member, Student Design Team
- Used Eagle designs to build circuits, improving the modularity of the pod and reducing failure modes
- Ran simulations of magnetic wheel propulsion using COMSOL to optimize our propulsion systems

Winter 2018 **Wander,** Mobile Application for StarterHacks
- Used Android Studio and implemented Google API services and firebase to develop and app designed to track users' locations relative to store items; developed the user interface using XML and JAVA
- Practiced both simulation prototyping and rapid prototyping for reviews on a Google Pixel

Fall 2017 **Design Project for Intro. to Biomedical Design,** University of Waterloo
- Designed a device to improve the efficiency of helmet adjustment
- Practiced rapid prototyping techniques using SolidWorks designs and 3D printing; implemented design analysis for biomedical systems design and engineering design principles

Fall 2017 **Digital Computation,** 1A course at University of Waterloo, Sept. – Dec. 2017
- Used introductory knowledge of object-oriented programming to efficiently organize, as well as navigate files such as MediCal and FASTA files; also programmed basic games and puzzles
- Techniques included sorting, searching, recursion, polymorphism, generic types, and linked-lists

Summer 2016 **John Dobson Entrepreneurship Cup**, SHAD Valley International
- Product used carbon nanotube sensors to monitor ethylene levels and reduce wastage from harvests
- Edited and contributed to the formal business plan, helping it to rank first place at the competition

WORK EXPERIENCE

Fall 2016-2017 **Teaching Assistant,** Pinetree Secondary School
- Practiced vigilance and efficiency in marking up to sixty written mathematics exams in ten hours
- Instructed individuals and large groups of students in topics such as Pre-Calculus, Physics, and Calculus

Summer 2016 **Intern,** Burnaby-North Seymour Constituency Office
- Assisted the Member of Parliament in communications, planning, research, and data collection
- Increased efficiency in data collection through learning to efficiently navigate databases such as Liberalist, assisting the office to rank nationally as one of the top-five ridings for data collection

EDUCATION

2017 - Present **Candidate for Bachelor of Applied Science,** Biomedical Engineering, University of Waterloo

INTERESTS

- Medical imaging, game development, tutoring, soccer, saxophone, SpaceX