

Bill (Yuan Hong) Sun



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Skills and Abilities

- Proficient in Python with 4 years of experience; Familiar with C, C++, MATLAB, ARM, Verilog, and SAS.
- Experienced in applying the engineering design process.
- Fluent in Mandarin Chinese (can communicate in both Simplified and Traditional Chinese).

Experience

University of Toronto Transportation Research Institute

Research Assistant, Data Analyst—Transportation Modelling Group (Prof. Eric J. Miller)

May—Aug. 2017

- Analyzed path data from transportation path choice modelling of the Greater Toronto Area
- Developed Python programs to analyze and compare data sets
- Implemented data structures including tries
- Observations were useful for improving the model and further research

Parking Manager Application Simulator

Jan—Mar. 2016

- Used C++ to create a prototype of a parking space booking / manager application
- Graphical interface that allows users to view, select, and book parking spaces
- Allows managers to monitor status of each car and parking space

University of Toronto Blue Sky Solar Racing Team

May 2017—Present

- Assisted in the design and construction of a solar powered vehicle that participated in the World Solar Challenge 2017 in Australia

Earl Haig S.S. Future Engineers Society (Later became a branch of Engineers Without Borders)

Sep. 2015—Jun. 2016

President, co-founder

Education

University of Toronto, Faculty of Applied Science and Engineering

B.A.Sc. Candidate in Engineering Science, Major in Machine Intelligence

Toronto, ON

Sep. 2016—Jun. 2020

(Expected)

- Completed an extensive engineering design course called Praxis, which involved solving a real-life engineering problem in the GTA
- Currently taking a course that involves the design and building of an autonomous robot
- Courses in algorithms & data structures, statistics, digital logic, and computer organization

Earl Haig Secondary School

Ontario Secondary School Diploma (OSSD)

North York, ON

Sep. 2012—Jun. 2016

Awards and Achievements

- U of T Delta Tau Delta Scholarship (Amount: \$3000) October 2016
- U of T President's Entrance Scholarship (Amount: \$2000) July 2016
- SAS Certificate of Completion June 2016

Hobbies and Interests

Engineering design, swimming, data analysis, Engineers Without Borders, weather, geology, climate change