Winston (Weixuan) Sun

Toronto, ON | (647)–676–1146 | winston.sun@mail.utoronto.ca

EDCATION

Bachelor of Applied Science 3rd Year   Class of 2021

Department of Electrical and Computer Engineering, University of Toronto

Dean's Honour List   CGPA: 3.82

RELEVANT COURSES

Computer Fundamentals; Programming Fundamentals; Digital Systems; Digital Electronics; Computer Organization; Computer Networks; Communication and Design; Algorithms and Data Structures

TECHNICAL SKILLS

Programming Languages: C; C++ (object-oriented); C#; .Net; WPF; SQL database; Verilog; ARM Assembly Language; MATLAB; HTML; CSS; PHP; Shell Script; XML & DTD

Computer Tools: Git (Version Control); Valgrind; ModelSim; Simulink; Multisim (SPICE); Eyeshot

Electrical Instruments: FPGA; Function generator; Oscilloscope; Multimeter; Protoboard

WORK EXPERIENCE

Software Developer (Full Stack) (C#, .Net, WPF), Rocscience   May 2019 – Aug 2019

- Integrated Sensemetrics API (TCP connection) and IDS Radar (HTTPS connection) into Slide3, fetching and filtering user-selected data through web servers and plotting onto the 3D model
- Developed new UI for importing and selecting data feature and designed process flow
- Implemented the Export Factor of Safety function, converting model to csv and COLLADA files
- Sampled points using Poisson distribution and calculated error between two similar geometries

Electrical Engineer Intern, Bekaert Deslee   Jul 2018 – Aug 2018

- Sorted, tested and troubleshot more than 200 feeder devices on knitting machines
- Decreased the wastage (discard rate) of the feeder devices by 30%, saving the company over ten thousand dollars (replacement expenditure)

ENGINEERING PROJECTS

Designer, TV Schedule Search (PHP, HTML, CSS), Personal Project   May 2019 – Present

- Make a website that searches for TV series schedule of the current season and weekly episodes

Team Lead, Map Application Software Design (C++), UofT   Jan 2019 – Apr 2019

- Created higher-level API and develop graphics interface for the Geographic Information System
- Found the fastest path and the most efficient way for courier companies to deliver packages

Designer, Flappy Bird Game Hardware Design (C, ARM Assembly), UofT   Apr 2019 – Apr 2019

Designer, Piano Tile Game Hardware Design (Verilog), UofT   Nov 2018 – Dec 2018

LEADERSHIP

VP Conference, SEA Sustainable Engineers Association   Apr 2018 – Present

- Develop full scale project plan, lead the execution and oversee the UofT Sustainability Conference with over 300 attendees from universities and industries.
- Coordinate the conference team, manage budget, and plan the project timeline.

Mentor, Hi-Skule, University of Toronto   Feb 2018 – Apr 2018