

Website

connorjsmith.me

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Connor J. Smith

BASc. Candidate, Computer Engineering

University of Toronto, Expected May 2017

Software Engineering Co-Op

Top Hat, Inc.

tophat.com

May 2015 – Present

Director of Mentorship

General First Year Engineering

March 2014 – March 2015

Mapping and Routing System

University of Toronto

January 2015 - April 2015

Real Time Assembly Interpreter

University of Toronto

March 2015

Stock Analysis Algorithm

UTEK Engineering Competition

January 2015

BASc., Computer Engineering

University of Toronto

cGPA: 3.89/4.0

Expected May 2017

Experience

Designed and implemented the textbook content platform used by nearly 300,000 students and professors worldwide.

Provided a leading voice in the planning and execution process to help make critical engineering and product design decisions.

Directed an organization of over 50 upper year mentors designed to help integrate 200 first year engineering students into university life.

Challenges included coordinating and training all mentors, communicating with external groups and managing a budget used to execute various team-building events throughout the year.

Projects

Developed and documented a full, graphical Google Maps-like application using OpenStreetMap data within a team of three engineering students.

Implemented and modified the Dijkstra and A-star algorithms to achieve near-optimal solutions to the classical travelling salesman problem.

Applied the concepts of genetic algorithms and multithreading to improve efficiency and solution quality.

Engineered a working assembly language interpreter using Verilog HDL and the NIOS II assembly language on the Altera DE2 FPGA platform.

Modified processor hardware source code to implement custom instructions to improve the speed and maintainability of the project.

Designed and implemented an algorithm within a team of 4 engineers to optimize profits as a part of an open-ended competition.

Algorithm used a combination of linear algebra, calculus and heuristic optimizations to deliver an efficient and accurate solution.

Education

Pursing a BASc. with a focus on embedded systems, networks and operating systems.

Awarded for continually demonstrating both outstanding academic performance and community involvement.

Skills & Tools

Programming Languages

Development Tools

Miscellaneous

Python, C++, C, Javascript, HTML5/CSS3, Verilog, Assembler, MATLAB

Django, Git, Quartus II FPGA Suite, NI Multisim, Linux/bash, Vim

Oscilloscopes