ADAM TABACK

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EDUCATION

University of Toronto

September 2022 - May 2026

cGPA: 3.92

B.A.Sc in Electrical and Computer Engineering

Relevant Courses: Introduction to Computer Programming (Python): 96%, Data Structures and Algorithms (C): 100 %, Programming Fundamentals (C++/OOP): 92%, Digital Systems (Verilog, FPGA): 97%. Computer Organization (Assembly, C): 96%

PROJECTS & RESEARCH

FPGA Processor © Winter 2024

- · Created a 16 bit processor in Verilog to run on a FPGA, with associated assembly language
- · Wrote python parser to allow assembly code to be written and be compiled by processor

Radio Receiver: Mixer and Preprocessing

Winter 2024

· Designed a fully functioning PCB in Altium for a radio receiver, specifically the Mixer and pre-processing filtering and amplification

Synthesizer in Verilog (7)

Fall 2023

- · Created a musical Synthesizer using Verilog, that ran on an FPGA
- · Generated square and sine waves, produced note based on keyboard input, modulated waves to produce ADSR, compression and overdrive effects, displayed visuals using VGA display

Risk Stratification for Improved Preeclampsia Prediction ()

Summer 2023

Data Science Research Intern with Professor Brian Cox

University of Toronto

· Used unsupervised machine learning techniques to find subtypes of Preeclampsia and used Python to write a suite of functions to streamline workflow

SKILLS

Computer Languages Python, C, C++, R, Verilog, Matlab, Java

Operating Systems Linux, Mac OS, Windows

Packages Scikit-Learn, TensorFlow, Keras, Pandas, Matplotlib

Tools Altium, High Performance Computing (HPC), Quartus, Modelsim, LATEX,

Github, Git, Microsoft Office (Word, Excel, PowerPoint, Outlook)

Professional Skills Collaboration, Problem Solving, Leadership, Effective Communication

HONOURS AND AWARDS

- · University of Toronto Excellence Award HLS, 2023
- · Dean's List Fall 2022, Winter 2023

WORK EXPERIENCE

Teaching Assistant

Fall 2023 - Winter 2024

Introduction to Computer Programming (ESC180) & Data Structures and Algorithms (ESC190)

· Ran weekly labs, helping students complete lab assignments and assessing their performance, Marked Midterm and Final Exam

INTERESTS/COMMITMENTS

Food Bank Volunteer (Fort York Food Bank), Hart House Orchestra (Violin), Skule StageBand (Guitar), Bass Guitar, Running