

Nidaa Rabah

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EDUCATION

University of Toronto, Bachelor of Applied Science and Engineering

September 2021 - April 2025 (Expected)

- Majoring in Computer Engineering
- Minor in Engineering Business
- PEY Co-op Program
- Salim Majdalani Scholarship award recipient - 2021
- Edward S Rogers Sr. Admission Scholarship recipient - 2021

Lycée Abdel Kader, French Baccalaureate

September 2006 - June 2021

- Specialization mathematics and physics/chemistry.
- Graduated with highest honors. 18.34/20 average.
- Merit based scholarship - 2018, 2021

PROJECTS

Geographic Information System (GIS) software - January - April 2023, Software Design and Communication

- Worked on building a geographic information system, in C++, using GTK for creating the GUI, in a group of 3.
- Expanded my experience in revision control, GIT.
- Reading from OSM API, implemented functions to store and search through data.
- Implemented A* algorithm for path finding, averaging 19.27 milliseconds to find the more complex paths on the map.
- Implemented multi-destination Dijkstra to solve the traveling salesman problem, averaging 18.40 seconds completion time for the harder cases, which is significantly lower than the 50 seconds limit of the unit test cases.

Enhanced Processor - April 2023, Computer Organization and Architecture

- In Verilog, implemented a digital system that contains 16-bit registers, a multiplexer, an adder/subtractor, and a control unit.
- The processor was implemented to execute similar instructions as: MOV, MOVT, ADD, SUB, CMP, LDR, STR, AND, B{COND}, BL, PUSH, POP, LSL, LSR, ASR, ROR (from ARM Assembly).
- Simulated the processor using ModelSim.
- Connected the processor to a memory and I/O devices and ran Assembly-language code to demonstrate its operation using the lights, switches, and HEX display on a DE1-SoC board.

SKILLS

C/C++, Verilog, ARM Assembly, MatLab

Basic SQL knowledge

Basic Unix/Linux knowledge

Fluent in English, French, and Arabic

MS Office, G Suite, iWork

ADDITIONAL EXPERIENCE

Game Design Workshop, June 2019,
Girls Got It - *Received the most hardworking intern and best design award. Demonstrated the ability of designing simple character actions and movements.*

PARLEMENT DU LAK, September 2018 - June 2019, Lycée Abdel Kader - *Improved my debating skills and advanced to the debate competition finals.*

VOLUNTEER AND CO-CURRICULAR ACTIVITIES

ECE Ambassador, since October 2022, Department of Electrical and Computer Engineering - *Represent the student body, act as an ambassador to alumni, prospective students and parents at various recruiting events, campus open houses, high school visits, and other events as assigned.*

VP Social Media, since October 2022, Skule Billiards Club - *Create posters, brochures, ads..., manage the club's Instagram account.*

Photographer, since November 2022, Skule Photography - *Take photos and pictures of various Skule events.*

Fourth Wall Destroyer, September 2022 - April 2023, The Toike Oike Newspaper - *Organize events and activities promoting the Toike Oike.*

Distribution Manager, September 2022 - April 2023, The Cannon Magazine

Marketing Associate, October 2021 - March 2022, Middle Eastern Student Association UTSG

General Member, 2020 - 2021, Lebanese Red Cross

Elected Senior Class Representative, 2020 - 2021, Lycée Abdel Kader