

Mahiliny Santhirakumar

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Summary Of Qualifications

- Highly successful in **multitasking** and **time management** to effectively stay **organized** when balancing extra-curricular activities and a part-time job while taking a full course load.
- Takes on **responsibility** wisely and excels in working a **leadership** role as an Area Supervisor of the Revenue Department at Wet'n'Wild Toronto.
- Ability to quickly **adapt** to new technologies and apply knowledge to **solve** technical problems when working with Dr. Harvey Shi and FlexCap Energy Ltd to develop a thin-film battery packaging solution to minimize its moisture loss.
- Proven to have strong **written** and **verbal communication** skills in the role of Computer Engineering Ambassador for the University of Toronto.
- Exceptional ability to work **individually** and as a **team player** whilst working as a Sales Associate and Cashier for Sporting Life.

Education

- **UNIVERSITY OF TORONTO | SEPTEMBER 2019 - PRESENT**
Bachelor of Computer Engineering with a minor in Engineering Business

Computer and Technical Skills

PROGRAMMING AND OPERATING TOOLS:

Python, C, C++, Verilog, ARMv7, MATLAB, Simulink, GIT, Perforce

APPLICATIONS:

Microsoft Office Suite, LTSpice, Xyce, Typhoon HIL

Work Experience

ASIC DIGITAL DESIGN INTERN | SYNOPSYS | MAY 2022- SEPT 2023

- Writing testbenches in System Verilog
- Creating scripts to automate constraint checks within the design
- Running simulations and analyzing the results
- Modeling of analog blocks

University of Toronto Projects

GEOGRAPHIC INFORMATION SYSTEM | JANUARY 2021 – MAY 2021

- Design an interactive program that displays a map of any prompted city, and provides information to a user such as shortest pathway between any two intersections
- Organize information from a database (ex, street names and locations) into data structures
- Program the map in C++ collaborating in a team of 3 using GIT

FLEXCAP CAP ENERGY LTD. DESIGN PROJECT | JANUARY 2020 – MAY 2020

- Consult Dr. Harvey Shi CEO of FlexCap Energy Ltd to understand and identify the issue with the design of his thin film batteries causing moisture loss
- Collaborate in a team of 6 students to conduct research and identify a potential solution
- Chosen to be the communication lead in the group, being the primary contact between the group and Dr.Shi

Extra-Curricular Experience

COMPUTER ENGINEERING AMBASSADOR | UNIVERSITY OF TORONTO | 2020 - PRESENT

- Represent the Computer Engineering student body and act as an ambassador to prospective students, alumni and parents at recruiting events, high school visits and various other events
- Communicate personal experiences with all aspects of school life in a professional manner in front of large groups

ENGINEERS WITHOUT BORDERS CONTENT VP | UNIVERSITY OF TORONTO | 2020 - 2021

- Executive role for Content division, leading a group of general members
- Conduct research about topics regarding environmental sustainability (ex, the effects of single use plastics) and host informed workshops to over 100 high school students every month

SKULE MENTAL WELLNESS CLUB MARKETING MEMBER| UNIVERSITY OF TORONTO | 2020 - 2021

- Create and administrate content on the Skule Mental Wellness Club Instagram account
- Brainstorm and research topics to promote mental wellness through each post
- Utilizing Canva to create the Instagram posts related to each topic