

Mohammed Mujahid Amir

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EDUCATION

University of Toronto

Bachelor of Applied Science

Toronto, ON

Expected: April 2024

Major in Computer Engineering, Minor in Artificial Intelligence

Relevant Coursework: *Software Communication and Design, Algorithms and Data Structures, Programming Fundamentals, Operating Systems, Computer Networks, Computer Fundamentals, Digital Electronics, Introduction to Optics, Introduction to Electronics, Computer Organization*

EXPERIENCE

Hardware/Software Development, Human Endeavour

Vaughan, ON

Summer Intern

Summer 2022

- Helmed, planned, and administered the design and marketing of a line assistive tablets to aid visually impaired users and those living with dementia
- Programmed, tested, and debugged macro-driven assistive features of Android tablets
- Devised infrastructure to quickly replicate and update features and programs on deployed tablets, as well as a system of version control.

Computer Networks Text Conferencing Application, UofT

Toronto, ON

Developer

Winter 2023

- Designed and programmed both the server and client sides of a multi-user text conferencing application using C and socket programming
- Used multithreading and IO multiplexing to implement multiple synchronous commands and users

Software Communication and Design GIS, UofT

Toronto, ON

Communications Manager and Developer

Winter 2021

- Designed and programmed a GIS in C++ using location data and calls to an OpenStreetMapsDatabase API
- Developed both frontend and backend aspects of the application, including optimal route-finding algorithms and a user-oriented responsive interface

Visual Assistance Haptic Feedback Application, Tanvas Inc.

Toronto, ON

Consultant

Fall 2018

- Partnered with Tanvas, Inc to research and prototype applications for programmable surface haptics in assisting the visually impaired.
- Managed communications of design process, objectives, constraints, metrics, and results between team and engineering manager and drafted, edited, and presented a design proposal to our client.

SUMMARY OF SKILLS

Technical Skills:

- Mathematical analysis and problem solving, and familiarity with UNIX, Linux, Windows, and MacOS

Programming Languages:

- C, C#, C++, Python, Verilog, ARMv7 Assembly, HTML, CSS, JavaScript, MatLab, SQL

Project Management:

- Project planning and delegation via tools such as Microsoft Excel, Gantt Charts, Slack, and Trello

Teamwork:

- Strong collaborative and communication skills through verbal and written media built through design proposals, presentations, debating, and technical documents

Software Development:

- Experience with version control (Git/GitHub), object-oriented programming, deep learning neural net design, socket and network programming, and debugging