ARMAAN **BAINS**

Computer Engineering Student

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EDUCATION

University of Toronto
Bachelor of Applied Science in Computer Engineering + PEY Co-op
Sept. 2022 - April. 2027
Relevant courses: Algorithms and Data Structures, Programming Fundamentals (Python), Operating Systems, Communication and Design, Computer Fundamentals, Digital Systems, Computer Organization

SKILLS

- Programming: C++, C, Java, Python, Verilog, MATLAB
- Other: Quartus, Microsoft Office, Embedded Systems, Linux

PROJECTS

Contact Person, Redesigning of The Sydney Smith Building
Sept 2022 - Dec 2022

- Collaborated with a design team in order to redesign the University of Toronto's Sydney Smith Building.
- My main role as the Contact Person was to ensure communication between the group as a whole, along with the stakeholders and clients.
- Was able to construct a final solution and design plan to the proposed problem

Team Leader, City of Toronto - Designing a Storage Unit
Jan 2023 - April 2023

- Collaborated with a design team in order to create a Storage Unit design for the City of Toronto
- My primary responsibility as the Group Leader involved facilitating effective communication among the entire team, as well as maintaining clear and open lines of communication with stakeholders and clients.
- Was able to construct an effective design which met the client's (City of Toronto) needs

Developed a Stock Screener
July 2023 - Aug 2023

- Developed a Stock Screener that specifically scans for stocks that follow a specific trading strategy I have created. The stocks either have gapped up or are overbought. These qualities are based on RSI values, Bollinger bands, and Moving Averages. I was able to use my understanding of Python, along with file systems and compilers to create this project.

Development of an Autonomous Steering wheel
Sept 2023 - Oct 2023

- Gained valuable hands-on experience in project management, robotics, and automotive technology, while fostering a passion for innovation and racing.
- Collaborated closely and intricately with teammates to integrate control algorithms, embedded systems, and file systems into a motor controlling a steering wheel, which serves as a pivotal component in the autonomous vehicle being developed.
- Was able to get an understanding of Linux kernel development and databases which was used to continuously update the code.
- Contributed to a robust safety framework, aligning the autonomous steering system with industry standards and enhancing real-world safety.

WORK EXPERIENCE

Building Materials Associate - RONA
Feb 2022 - August 2022

- Consulted with customers and was responsible for multiple tasks, including high-level customer service, pricing lumber, and making sales for building equipment.
- Issued refunds, made claims for stolen items, and worked as a lumber desk expert, selling high quantities of material
- Was responsible for maintaining the work environment, and ensuring that everything in the store was organized
- I established many interpersonal skills from this experience and was able to improve my responsibility

City Heart Dental - October 2021 - December 2021

- Assisted with sterilizing equipment and making it ready for reuse
- Helping out with organizing files and other storage areas
- Provided high-level customer service, ensuring that all appointments were properly booked and that everything ran smoothly and well.
- Was able to develop high-level communication skills, whilst also improving my accountability skills