

Bilal Irfan

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SUMMARY OF QUALIFICATIONS

- Motivated third-year Computer Engineering student with programming skills in Java, Python, C, and front-end technologies. Successfully developed projects like a Java-based banking app and Arduino-based robotics.
- Creative problem solver with hands-on experience in digital systems design and circuit simulation, including the development of a general-purpose processor and a BJT signal amplifier.
- Proven academic excellence with a 4.13 GPA and consistent Dean's List standing. Recipient of the Pierre Lassonde Entrance Scholarship for outstanding academic performance.
- Languages:** Java, Python, C, C++, HTML, JavaScript, CSS, VHDL, MATLAB
- Tools and Technology:** Arduino IDE, NI Multisim, Quartus II, Oscilloscope, AutoCAD, MS Office

EDUCATION

Bachelor of Engineering in Computer Engineering

Toronto, ON

Toronto Metropolitan University (TMU)

Sep. 2022 – Exp. 2027

- Awarded the **Pierre Lassonde Entrance Scholarship** for academic accomplishment in high school
- Included in **Dean's List** in 2023, 2024 & 2025.
- Relevant Courses:** Electric Circuit Analysis, Software Systems, Digital Systems, **Engineering Algorithms and Data Structures**, Object Oriented Eng Analysis and Design, Microprocessor Systems, **Signals & Systems**, **Computer Organization and Architecture**, Operating Systems

CGPA: 4.13 / 4.33

PROJECTS

Carpooling App Development | *Personal Project* | Java

Sept. 2021 – Feb. 2022

- Developed a carpooling app using **Java** with a custom ride-matching algorithm, promoting cost-effective and eco-friendly commuting.
- Strengthened programming skills in Java and enhanced **collaboration** and **project management** abilities by working in a team of 6, to design and test the application.

GUI Based Banking Application | *Software Systems - Final Project* | Java, JavaFX

Jan. 2024 – Apr. 2024

- Developed a **Java**-based banking application with user roles (customer, manager) and different account levels (Silver, Gold, Platinum).
- Designed and implemented core banking functionalities using **JavaFX** for the user interface and **UML diagrams for Object-Oriented Design**, earning positive feedback from peers and the instructor.

Arduino Fight Bot | *1st Place - Arduino Battle Bots Tournament* | Arduino, C++

Sept. 2022 – Dec. 2022

- Built a combat-ready robot using a standard Arduino bot kit, including an **Arduino Uno**, servo motors, and chassis, customizing it for tournament combat by designing and fabricating a armor and weapon attachment.
- Secured 1st place out of **24 participants** through strategic coding and mechanical design, integrating hardware and software components for optimal functionality.

General Purpose Processor | *Digital Systems - Final Project* | VHDL, Quartus II

Sept. 2023 – Dec. 2023

- Implemented **Quartus II** software and VHDL to design, simulate, and test a versatile **general-purpose processor**.
- This processor handles arithmetic operations and bitwise manipulations on 8-bit inputs, with results shown on 7-segment displays, meeting all specifications and receiving a high grade for functionality.

BJT Signal Amplifier Design | *Electronic Circuits I - Final Project* | Multisim

Jan. 2024 – Apr. 2024

- Designed and simulated a 3-stage (CC-CE-CC) inverting **BJT amplifier** using **Multisim**, achieving a **98%** project score by meeting all design specifications, including a **voltage gain of 50**.

EXPERIENCE

Front End + Receiving Team Member (Customer Service Associate)

May 2023 – Present

RONA

Mississauga, ON

- Utilized the **Merchandise Management System (MMS)** to efficiently manage inventory.
- Ensured **98% accuracy** in product placement throughout the store.
- Developed **time management, communication, and customer service** skills by working in a fast-paced environment while addressing customer inquiries.