

# Nathaniel Recto

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## SUMMARY OF QUALIFICATIONS

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- Currently enrolled as a third-year Computer Engineering student at Toronto Metropolitan University.
- Proficient in machine learning algorithms using Python, with extensive experience in developing and implementing models.
- Experienced in C programming, with project work involving state machines, XML parsing, and tree representation.
- Skilled in applying object-oriented engineering principles to software problems, utilizing design patterns effectively.

## TECHNICAL SKILLS

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**Languages:** HTML/CSS, C/C++, Java, Matlab, Python

**Productivity Tools:** MS Office (Excel, Word, Powerpoint), Google Workspace (Docs, Sheets, Slides)

**Developer Tools:** VS Code, Visual Studio, Git, Github

**Hardware:** VHDL, Arduino Uno, Multisim

**Core Competencies:** Engineering Algorithms and Data Structures, Object Oriented Eng Analysis and Design

## EDUCATION

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**Bachelor of Engineering (B.Eng.):** Computer Engineering

Sept 2022 - May 2026

Toronto Metropolitan University

## ACADEMIC AND PERSONAL PROJECTS

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**General-Purpose Processor,** Toronto Metropolitan University

Dec 2023

- Engineered a simple processor using Quartus II software and VHDL, incorporating components such as a 4x16 decoder and finite state machine, enhancing technical problem-solving skills.
- Developed and tested processor functions to perform arithmetic and bitwise operations on two 8-bit inputs, effectively displaying results on 7-segment displays.

**Multistage Amplifier Design,** Toronto Metropolitan University

April 2024

- Designed and simulated a single-supply, multistage, inverting transistor amplifier using Multisim, achieving analytical skills.
- Conducted manual calculations and detailed simulations to select resistance and capacitance values, improving precision in component selection and circuit analysis.

**Personal Portfolio Webpage**

May 2024

- Designed and constructed a personal website using HTML/CSS to showcase projects and skills, developing creative problem-solving skills.
- Optimized website for small screens using media queries to adjust layout and font sizes for mobile devices, demonstrating proficiency in front-end development.

## WORK EXPERIENCE

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**Operations Support,** Enercare, Markham, ON

May 2024 - Aug 2024

- Collaborated with cross-functional teams to resolve HVAC contract deficiencies, enhancing operational efficiency and customer satisfaction.
- Optimized invoicing processes by managing payments to contractors, reducing processing time by 20% and ensuring timely compensation.
- Performed administrative tasks and served as a primary contact, improving communication and increasing team productivity by 15%.