

Gianluca Ceccacci

📍 Toronto, ON ✉ gianlucaceccacci13@gmail.com ☎ 519 990 1631 🔗 gceccacci.github.io in gianluca-ceccacci

Education

University of Toronto

Sep 2023 – Apr 2028 (Expected)

Bachelor of Applied Science and Engineering, Engineering Science
+ PEY Co-op, Electrical & Computer Engineering Option

- Coursework: Computer Organization, Computer Architecture and Digital Design, Introduction to Machine Learning, Fundamentals of Electric Circuits, Data Structures and Algorithms

Professional Experience

Battery State Estimation Engineer Co-op

Automotive Research and Development
Centre, Windsor, ON. May – Aug 2025

Stellantis

- Designed a low-cost circuit and associated PCB for the performance of pulse-based electrochemical impedance spectroscopy (EIS).
- Developed MATLAB scripts for the post-processing of company EV battery pack test data.
- Created Graphical User Interfaces for MATLAB scripts, facilitating the post-processing procedures executed by the Stellantis India team.

Vehicle Dynamics Simulator Laboratory Co-op

Automotive Research and Development
Centre, Windsor, ON. May – Aug 2024

Stellantis

- Developed a procedure to process LiDAR scanned point cloud data to generate 3D models of company winter testing grounds and use for physics simulations on the company's \$10.1 million vehicle simulator.
- Wrote Python scripts to automate elements of the aforementioned 'road' creation process.
- Saved the company thousands of dollars in work with external companies by enabling internal development of 'roads' for simulation using only open-source software.

Pizza Maker

LaSalle, ON

Antonino's Original Pizza Co.

Jul 2022 – Aug 2023

- Worked 25–30 hours weekly throughout high school making pizza and engaging with customers.
- Developed strong time management skills, customer service skills, and work ethic.

Extracurricular Activities

Aerial Sub-team Member

Sep 2024 – Present

University of Toronto's Robotics for Space eXploration

- Design team that designs and builds small-scale rocket payload that is launched to 700 m and collects data on its descent.
- Received 5th of 72 competing teams in the 2025 international CanSat competition and 1st in North America.

Coding Sub-team Member

St. Thomas of Villanova Catholic High

Villanova Wirecats (FIRST Robotics Competition)

School, LaSalle ON. 2020, 2023

- Used C++ to develop autonomous routines carried out by robots that competed in FRC competitions.
- Responsible for scouting and strategizing with other teams on our alliances during competition matches.

Skills

Coding: Python, C, C++, MATLAB,
SystemVerilog, RISC-V, R

3D Modelling: Fusion, SolidWorks, Blender, Maya

Other Software: KiCad, LTspice, Microsoft Suite

Certifications

French – DELF B2 Bilingual Certification

Royal Conservatory of Music Grade 8 Violin

Royal Conservatory of Music Grade 8 Piano