

Izabella (Zhiqi) Yu

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LinkedIn Profile: <https://www.linkedin.com/in/zhiqi-yu-066575229/>

Motivated and detail-oriented Computer Engineering student with good multi-tasking skills and 2+ years of experience designing and analyzing electrical and computer components and systems. Proficient in MATLAB, C/C++, and Python. Seeking an opportunity to apply technical skills, problem-solving abilities, and passion for innovation in a dynamic and challenging environment.

Education:

Bachelor of Applied Science and Engineering (B.A.Sc) in Electrical/Computer Engineering + PEY Co-op

University of Toronto Toronto, Ontario (Expected) Graduate in Apr.2027

Intended minor in Artificial Intelligence (will finish multiple ML, AI, Deep Learning courses by the end of Apr.2025)

Relevant Courses: (CGPA: 3.13)

Digital Systems (Risk assessment) (Grade: A); Circuit Design (Grade: A-); Electric Fundamentals (Grade: A-); Computer Organization (Assembly language, FPGA programming, Task management, Research) (Grade: A-); Software Communication & Design (Teamwork, Collaboration, OOP, Debugging, Version Control, Sorting Algorithm and Searching Algorithm, Documenting, Presenting) (Grade: A-); Engineering Strategies & Practice(Customer Orientation); Calculus I (Grade: A); Calculus II (Grade: A); Calculus III(Grade: A-); Advanced Engineering Mathematics (Grade: A-); Computer Fundamental(C Programming); Applied Linear Algebra;

High School Diplomat (Cambridge International Education (CIE) Format)

Guanghua Cambridge International School (GHCIS) Shanghai, China Sep. 2018 – Jun. 2021

Technical Skills:

Programming/Web:	C/C++, Python, MATLAB, HTML, CSS
Hardware Design:	Verilog, Nios II, FPGA, Arduino
CAD /Simulation:	Fusion360, LTSpice, ModelSim
Operating Systems:	Windows, Linux
Development Environments:	Arduino IDE, VScode, Clion, PyCharm, Quartus
Version Control:	Git/GitHub

Project: (more details can be found on my LinkedIn page)

A transit-centric map

Jan. – Apr. 2024

University of Toronto, Toronto, ON

Project from the University of Toronto course ECE297 (Software Communication & Design)

Starting from scratch, cooperating with teammates and designing the User Interface, implementing, and optimizing algorithms, and ending with a usable map with basic path-finding and multi-destination-route-planning functionality.

Line-tracking robot

June 2023

University of Toronto (UofT), Toronto, ON

8-day Project from the UofT 2023 Electrical & Computer Engineering robotic workshop.

Learning how to use Fusion360, Arduino IDE, and basic knowledge of I/O devices. Cooperating with teammates to design the robot by Fusion360(CAD tool) and adjust the sensors' layout. Optimizing the (basic C) codes' algorithm to increase stability, accuracy, and speed of line-tracking. Reaching the highest accuracy and stability, and third-quickest place in the workshop's final competition.

Experiences:

Vice-President & Co-Founder of Physics and Astronomy Club

Sep. 2018-Jun. 2020

Guanghua Cambridge International School, Shanghai, China

- Bring students who are interested in Physics and Astronomy together and build a communication platform

- Organize programs and research about Physics and Astronomy for students
- Encourage and support students to attend competitions and challenges related to Physics or Astronomy area