Nhat Hung Nguyen

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EDUCATION

Bachelor of Applied Science and Engineering (B.A.Sc) in Electrical Engineering

Toronto Metropolitan University(Formerly known as Ryerson University) Sep. 2021 - Present

- Relevant courses: Calculus I, II, and III, Electronic Circuits I/II, Software Systems, Engineering Algorithms and Data Structures, Electric and Magnetic Fields, Microprocessor Systems, Signal and System, Energy Conservation, Power Electronics, Power System Analysis, Advanced Electric Drives. Low Power Digital Integrated Circuit

SKILLS

Programming/Simulation || AutoCAD, Python, Java, Excel, MATLAB, C, Multisim, Arduino, VS Code
Tools || Oscilloscope, Function Generator, Power Supply, Signal Generator, Breadboard, Frequency Counter, Digital Multimeter, Insulation Resistance Tester, DC Power Supplies, Wire Strippers and Cutters, 3 Phase Circuit
Other || Microsoft Office [Teams, Word, Publisher, Powerpoint, Excel], Photoshop, Analytical, Organization, Communication, Teamwork, Multitasking, Enthusiastic, Problem-solving, Leadership, Time Management, Adaptability, Passion for Learning, Technical and Social Environment, Keen and Modest attitude, Fluent in **English/Vietnamese**

WORK/VOLUNTEER EXPERIENCE

Cashier | Coco Fresh Tea & Juice - Toronto, ON June 2024 - Present

- Demonstrated excellent time management by efficiently handling high volumes of customer transactions during peak hours, while maintaining accuracy and a positive attitude.
- Worked collaboratively in a fast-paced, team-oriented environment, adjusting to last-minute shift changes and extended work hours when necessary.

Math Tutor | Annie's Tutoring Centre - Mississauga, ON Jan 2017 – Jul. 2023

- Delegated assignments to 20 students and provided instruction on challenging concepts, employing effective analogies for enhanced comprehension (Grades 1 - 9).
- Produced and distributed worksheets and tests, meticulously assessing and grading student work.

RELEVANT PROJECT

Smart Bartender Ordering System

- Designed and implemented a full-stack automated beverage system integrating a FastAPI backend, embedded microcontroller control, and a customizable user interface.
- Developed REST APIs to manage drink orders, system state, and device communication between software and hardware components.
- Integrated ESP8266-based control logic for automated mixing, emphasizing real-time operation and system reliability.

Arduino Project

- Developed beginner-level Arduino projects incorporating RGB LEDs, Switches, a Servo Motor, an Ultrasonic Sensor, LED lights, a 7-segment display, and an LCD Display to create responsive and interactive environments.

Optimized Microprocessor Systems Implementation

- Designed and implemented an embedded navigation system on a microcontroller-controlled mobile robot, using sensor feedback to autonomously navigate a maze and retrace its path back to the start.

Advanced Electronic Circuits Design Initiative

- Developed, simulated, analyzed, implemented, and tested a transistor amplifier with multiple stages operating on a single supply, ensuring it met a predefined set of specifications.
- Conceived, simulated, executed, and validated a Linear Voltage-Controlled Multi-function Waveform Generator (VCFG) circuit - primarily focused on delivering a practical demonstration of knowledge through waveform generation techniques.