

Amanda Tong

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TECHNICAL SKILLS

- AutoCAD
- C++
- HTML5/CSS
- Java
- Python
- Arduino
- Git and VS Code
- Circuit analysis/design
- Microsoft Office

GENERAL SKILLS

- Leadership
- Problem-solving
- Teamwork
- Adaptability
- Communication
- Time-management

WORK EXPERIENCE

STEM/Coding Camp Counsellor – Code Ninjas – JULY 2022 – AUG 2022

- Led **Microsoft** PowerPoint presentations to a class size of 15+ campers, introducing them to STEM-related topics such as **Roblox** 3D modelling, robotics, and **Scratch/Minecraft** coding
- Guided one-on-one lessons to a class of 5 campers ages 6-9 on activating buzzers and LEDs in Lego creations through block code, resulting in 2x more participation

Team Member – Tim Hortons – SEPT 2021 – JULY 2022

- Accelerated quality food service to customers through communication and coordination with a team of 4-5 in 3-hour long rush-hours at storefront and drive-thru

Teacher's Assistant – Studio 51 Drama and Public Speaking – SEPT 2019 – MARCH 2020

- Assisted teachers by supervising and leading weekly improve performances for 2 classes, preparing students ages 6-12 for annual drama showcases and competitions

PROJECTS

Github Personal Website – Website: <https://amandakt.github.io/>

Technologies Used: HTML, CSS

- Implemented HTML layout methods and CSS animations/transitions to build a dynamic website
- Demonstrates creativity and strong ability to work, learn, and maintain high-quality of work independently

Energy Saver Electricity Usage Monitor – In Progress

Technologies Used: STM32Cube, STM32-F401RE Micro Controller, Split-Core Current Transformer, Breadboard kit

- Collected 2 months of research on scientific concepts such as Hall Effect, AC/DC Electricity, Power, and Ohm's Law to build a energy usage monitor that can calculate and output the power usage of house appliances per week
- Identified unrealistic goals set for the project and developing new ideas to resolve issues

Two-Player Ping Pong Game – NOV 2021

Technologies Used: Java

- Programmed two-player ping pong game that utilizes **Java GUI** components, listener events, Java animations
- Demonstrates understanding of how to use methods, conditional statements, and **OOP** concepts

EXTRACURRICULARS

Midnight Sun Solar Car Hardware Team Member – University of Waterloo – OCT 2022 – CURRENT

- Completed hardware onboardings and watched team-made hardware videos to strengthen knowledge in electrical circuits and an introduction to PCB design and layouts
- Developed basic knowledge in Altium Designer

EDUCATION

Electrical Engineering Program – University of Waterloo
Expected to Graduate in 2027

LANGUAGES

English – Fluent Cantonese – Fluent
Mandarin – Fluent