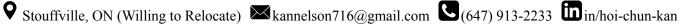
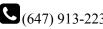
Hoi Chun Kan (English / Chinese)





EDUCATION

Bachelor of Electrical Engineering (GPA 3.6) - Ontario Tech University (Sept 2018 - Apr 2022)

Courses

Circuits and Electronics

Control Systems

• Wireless Communication

• Engineering Design

• Digital Logic and Computer Systems

• Microprocessors and Computer Architecture

• Power Systems

Signals and Systems

• Smart Grid Networking & Security

SKILLS

Software Tools: AutoCAD, MATLAB, SOLIDWORKS, MS Office, Visual Studio

Programming Languages: JavaScript, HTML, CSS, SOL, PHP, Java, Python

EXPERIENCE

Development Assistant | Digital Trade

Feb 2023 - Present

- Conducting research to gather relevant data and information for development projects.
- Assisting in maintaining accurate records and documentation related to development activities.
- Staying updated on industry trends and advancements to enhance your knowledge and contributions.

Renovation Worker (Volunteering)

May 2022 - Present

- Connect wires for spotlight installations, ensuring proper electrical connections and adherence to safety standards.
- Operate wire saw machines and circular saws to precision-cut materials.
- Pay attention to details such as measurements, colors, and textures to ensure high-quality work.
- Work safely and follow safety guidelines while on the job site.

Concept Artist (Contract) | Meta Elf Studio

Jun 2023 - Jul 2023

- Produce visual representations of ideas and picture the models and components.
- Draft three-sided concept illustrations with precision and accuracy.
- Adjust approach based on project requirements and client preferences.

Teaching Assistant | CCC CHUEN YUEN SECOND PRIMARY SCHOOL Jul 2017 - Aug 2017

- Complete paperwork and be able to catch errors.
- Manage multiple tasks and prioritize work, including lesson planning and resource organization.

LICENSES

- Full G Driver's License
- Working towards PEO (Professional Engineers of Ontario) License

COURSE WORK & PROJECTS

Personal Website https://k98915210.github.io/portfolio

Camera Filter on Video Call

- Apply real-time filters to user's video calls.
- Implement face detection and tracking algorithms to ensure filters are applied accurately and consistently.

EMG Signal Wooden Arm

- Connect EMG sensors to an amplifier to measure muscle activity.
- Process and analyze the signal using an Arduino microcontroller to control a wooden arm prototype.
- Develop algorithms to convert EMG signals to corresponding motor commands for the arm.

Obstacle Avoidance Vehicle Using Radar Sensor

- Design and build a small-scale vehicle prototype with DC motors and ultrasonic sensors for obstacle detection.
- Utilize a radar sensor to detect objects and distances in the environment.
- Develop a program in Python to process the radar data and create a 3D map of the environment.
- Utilize a microcontroller board and motor driver module to control the vehicle's movements and actions.