

# Hoi Chun Kan (English / Chinese)

📍 Stouffville, ON (Willing to Relocate) ✉ kannelson716@gmail.com 📞 (647) 913-2233 🌐 in/hoi-chun-kan

## EDUCATION

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### 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

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

**Programming Languages:** JavaScript, HTML, CSS, SQL, PHP, Java, Python

## EXPERIENCE

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### 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

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

## COURSE WORK & PROJECTS

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**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.