

# Ethan Wong

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## EDUCATION

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### McMaster University

*B. Eng, Computer Engineering*

**Sep. 2023 – Present**

*Hamilton, ON*

- **GPA: 3.9/4.0**
  - Faculty of Engineering Award of Excellence (2023), Dean's Honour List (2024)
- Member of Solar Car Strategies Team
  - Designed and implemented a Python algorithm to collect traffic data from the Overpass API for race simulations
  - Developed an algorithm to optimize energy during the race

## WORK EXPERIENCE

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### Pedalheads

*Instructor*

**Jun. 2023 - Aug. 2023**

*Unionville, ON*

- Developed tailored teaching plans to instruct dozens of campers on safe and effective bike riding techniques
- Optimized class time by efficiently organizing equipment at the beginning and end of each day
- Maintained communication with campers to reinforce lessons and provided parents with progress updates

### Old Village Construction

*Construction Worker*

**Oct. 2021 – Dec. 2021**

*Markham, ON*

- Collaborated with team members to complete home renovation projects safely and efficiently
- Ensured a safe workplace by organizing and maintaining equipment

## PROJECTS

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### Snake [C++]

- Applied OOD principles in C++ to generate game items and maintain proper game mechanics

### Agar.io [Python]

- Utilized OOP in Python to create CPU opponents and game items
- Developed and implemented functional respawn mechanics for both the player and CPU opponents
- Engineered a player-focused camera system

### Pong [Python]

- Recreated Pong in Python, incorporating a CPU opponent and basic ball collision physics

## CERTIFICATIONS, SKILLS & INTERESTS

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- **Certifications:** Standard First Aid and CPR
- **Technologies:** Python, C, C++, Matlab, Microsoft Office (Word, Excel, PowerPoint)
- **Skills:** Problem-Solving, Teamwork, Responsibility, Organization
- **Interests:** Hockey, Reading