

# Alan Hu

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## Education

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**Bachelor of Applied Science in Engineering**, Queen's University, Kingston ON Sept 2022 – Present

- 2<sup>nd</sup> Year Computer Engineering at Smith Engineering

## Work Experience

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**Engineering Building Supervisor**, Engineering Society of Queen's University, Kingston ON Sept 2023 – Present

- A resource to engineering students in the Queen's Engineering Building by supervising the building after faculty hours.
- Providing students access to special equipment in the engineering building which includes Arduinos and analogue circuits.

**Apprentice Sprinkler Fitter**, Vortex's Fire Protection, Toronto ON June 2021 – Sept 2021

- Collaboration with teammates to cut openings that accommodate for specific pipe sizes.
- Reviewed blueprints and project specifications to determine the correcting plumbing solutions at 3 different sites.
- Calculated the point loads of the pipes to ensure proper strength and instalments of plumbing solutions.
- Assisted in creating time efficient solutions.

## Co-Curricular Activities

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**Engineering Orientation Committee Member**, Queen's University, Kingston ON Nov 2022 – Sept 2023

- Teamwork and collaboration with 15 other committee members to oversee upcoming 2023 orientation week for 1000 first year engineering students.
- Hired, managed, and trained 400 orientation week leaders.
- Communicate with vendors to acquire materials to build budget for day events, food, etc.
- Created an itinerary plan to oversee risk, safety, numbers of students, etc.

**Enactus**, Queen's University, Kingston ON Sept 2023 – Present

- Working with a team of seven to create innovative and self-sustaining projects/businesses that advance the economic, social, and environmental health of communities around the world.
- Presenting to Enactus bi-weekly to discuss potential sustainable business solutions that improve the social, economic, and environmental well-being worldwide.

## Projects

### Pacman Game

- Developing a working Pacman game in C
- Utilized concepts of recursion to simulate an enemy non-playable character.

### Posture App

- Developed an app on Android Studio to send notifications to user to fix their posture.
- Grabbed data from Arduino and stored and analysis the data using Java.

### Discord Bot

- Created a discord bot in Python using Replit and Discord Libraries
- Designed functions so if the user asks the bot to say some inspiring words using commands, it returns inspiring words from an API called Zen Quotes.

### The Office Database

- Created a database for the show "The Office" using SQL
- Managing all the employees, branches, and suppliers with queries

## Technical Skills

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- Programming: C, HTML/CSS/JS, Python, SQL, Java
  - Tools: Microsoft Office, Microsoft Word, GitHub, and Solidworks