RYAN CHEN

Electrical Engineering

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- **Technical Skills**: Object-Oriented Programming, Data Structures, TCP/IP Ethernet
- **Programming Language**: Java, C++, Python(Basic Proficiency)
- **Software:** VS Code, Git(VSCode), JIRA, Altium, MATLAB, Microsoft Office, Linux

EXPERIENCE

Coding Club

- Learning and practicing Java in preparation for the Canadian Computing Competition.
- Developed remote flight control for a drone.

Peer Tutor

- Led one-on-one tutoring sessions by simplifying challenging topics.
- Improved classmates' academic performance in AP Calculus and Physics.

Waterloo Aerial Robotics Group(WARG)

- Early stage PCB design using Altium
- Make drone that participate competition, more information please visit https://www.uwarg.com/

PROJECTS

Restaurant Management System   Jun 2024

Java

- Developed to enhance efficiency and reduce labor requirements in restaurant management.
- Utilized objects, classes, and linked lists to manipulate and organize data.
- Applied the I/O package to enable data storage in external files.
- Prioritized specificity, readability, and efficiency while adhering to general coding standards.

Visualization of Calculus   Mar 2024

Python, Manim(Extension)

- A learning tool that translates complex mathematical concepts into visual explanations.
- Selected as a showcase project for AP Calculus during Campus Open Day.

PvZ Script Project   2023-2024

C++, AssemblyVsZombie(Extension)

- Developed multiple automated in-game scripts for endless survival.
- Enhanced gameplay experience by programming techniques and implementing high-precision operations to achieve theoretical expectations.

EDUCATION

University of Waterloo   2024 - 2029
Bachelor of Electrical Engineering