

Kenneth Hung

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Skills

Languages/Tools

- C++ (RC4 Cipher, Business Calculator)
- Java (Jetpack Joyride Arcade)
- Python
- VHDL
- HTML/CSS
- PC Hardware Assembly

Design

- Google Sketchup
- Adobe Photoshop
- Adobe InDesign (Iron Warrior)

Personal Skills

- Strong Communication
- Team Leadership
- Motivated and Quick Learner
- Punctual and Responsible

Projects

Arcade with Jetpack Joyride | Java

Mar 2019 – Jun 2019

- Created a version of Jetpack Joyride using Java graphics class featuring obstacles and progressive difficulty
- Fully functional powerups, collectable coins and mini-shop with GUI
- Smooth player movement system using keylistener and animation for players and obstacles

RC4 Stream Cipher | C++

Oct 2019 – Nov 2019

- Implemented a RC4 stream cipher with encoding and decoding functions using binary operations
- A robust and secure cipher featuring a 256 byte pseudo-randomizer and a key to cipher and decipher text

Business History and Transaction Calculator | C++

Nov 2019 – Dec 2019

- Developed a linked list array consisting of transactions as nodes to help businesses track tax data
- Utilized pointer arithmetic and sorts in multiple functions to calculate ACB and capital gain/loss for businesses

Relevant Experience

FIRST Robotics Design Team Leader

Ajax, ON

J. Clarke Richardson Collegiate

Sept 2018 – Mar 2019

- Created a robot with a payload carrying system to compete at the 2019 FIRST Robotics Competition Provincials
- Led over 20 members through the design process to devise the mechanical piston systems and game plan
- Developed piston mechanisms using pneumatics on the robot to hold balls and discs

Town of Ajax Youth Leader and Camp Counsellor

Ajax, ON

The Corporation of the Town of Ajax

Jun 2018 – Aug 2019

- Active leadership from running programs for 30+ children aged 6-12 – received praise from the community
- Displayed flexibility by accommodating every participant in games and crafts to ensure inclusivity
- Portrayed interpersonal skills with patron interactions and work reports to deliver clear messages

Iron Warrior Layout Designer and Copy Editor

Waterloo, ON

University of Waterloo

Sept 2019 – Present

- Exhibited consistency by finishing edits in advanced to ensure punctual biweekly publications
- Expertly designed arrangement of context with InDesign to establish high quality 12-16 page newspaper
- Edited articles in WordPress to validate that articles are error-free and publication-ready

Education

Candidate for B.ASc in Electrical Engineering

Waterloo, ON

University of Waterloo

2019 – 2024 (Expected)

- Awarded Engineering Entrance Scholarship given to 65 students based on extracurriculars involvement
- Awarded President's Scholarship of Distinction for over 95% average from secondary school