Kenneth Hung

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Relevant Skills

Languages/Tools	Java (2 yrs), C++ (1 yr), Python (1 yr), VHDL, HTML/CSS, Adobe Photoshop, InDesign, Google Sketchup
Relevant Courses	Fundamentals of Programming, Digital Circuits and Systems, Linear Circuits, Electricity and Magnetism, Engineering Profession and Practice

Education

Candidate for B.ASc in Electrical Engineering   *Waterloo, ON*
University of Waterloo   *2019 – present*
- Awarded Engineering Entrance Scholarship given to 65 students based on extensive extracurriculars involvement
- Awarded President's Scholarship of Distinction for over 95% average from secondary school

Projects

Arcade with Recreated Jetpack Joyride | Java   *Mar 2019 – Jun 2019*
- Recreated Jetpack Joyride using Java graphics class featuring obstacles and progressive difficulty
- Fully functional powerups, collectable coins and mini-shop with GUI and buttons available in game
- Smooth player movement system using keylistener class and continuous frame animation for players and obstacles

RC4 Stream Cipher | C++   *Oct 2019 – Nov 2019*
- Implemented a RC4 stream cipher with text encoding and decoding functions using binary operations
- 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
- Chronologically sorted multiple transactions stored in a text file using insertion sort
- Utilized pointer arithmetic in multiple functions to calculate ACB and capital gain/loss for businesses

Computer Building | Hardware   *Nov 2019 – Dec 2019*
- Constructed over dozens of gaming, work, and personal computers for different clients
- Gained hands-on experience with CPU, RAM, graphics card, and other hardware installation

Relevant Experience

FIRST Robotics Design Team Leader   *Ajax, ON*
J. Clarke Richardson Collegiate   *Sept 2018 – Mar 2019*
- Created a robot with a payload delivery and collection system to compete at the 2019 FIRST Robotics Competition
- Designed the structure of the robot as the design team leader using modelling and drawing diagrams
- Developed piston mechanisms using pneumatics on the robot to hold different payloads

Town of Ajax Youth Leader and Camp Counsellor   *Ajax, ON*
The Corporation of the Town of Ajax   *Jun 2018 – Aug 2019*
- Exhibited leadership by leading diverse youth programs to encourage active youth development
- Demonstrated flexibility by accommodating different participants in games and crafts to ensure inclusivity for all
- Portrayed interpersonal skills with parent interactions and accident 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
- Demonstrated organization to layout articles with InDesign for creating high quality newspaper
- Concisely revised articles using WordPress to validate all articles are error-free