GARY LEUNG

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Education

University of Toronto
St. George Campus
Sep 2015 – May 2019

- Bachelor of Applied Science in Engineering Science (3rd Year Robotics Option)
- Cumulative GPA: 3.94/4.00
- Relevant Coursework: Data Structure and Algorithms, Digital and Computer Systems, Operating Systems

Experience

Dynamics Graphic Project
May 2017 – Aug 2017
Toronto, Ontario

C++ Software Developer
- Calibrated and debugged camera/projector setups using the OpenCV library in C++.
- Developed structured light imaging functions to display and compare optimized patterns for depth calculations.
- Implemented several image analysis algorithms to calculate object depth in a scene.

University of Toronto Project Holodeck
Sept 2017 – Present
Toronto, Ontario

C#/Unity Software Member
- Interfaced serial communication between Unity and an omnidirectional treadmill to mimic walking in VR space.
- Created test environments to debug project prototypes.

CUHK Institute of Precision Engineering
May 2016 – Aug 2016
Hong Kong, China

Prototype Development Researcher
- Wrote C code for Arduino to achieve precise control of a mechatronic arm.
- Presented to research team improvements/insights analyzed from collected model movement data, which are now implemented for next prototypes.

Mechatronic Design Association
Sept 2016 – May 2016
Toronto, Ontario

C++ Software Developer
- Developed a C++ program using OpenCV in Linux for the movement of an autonomous submarine in response to colored buoys.
- Lead and managed the buoy software sub team by organizing the program structure and allocating weekly tasks.

Projects

Kaitan Word Learner
JavaScript, jQuery

- Developed a chrome extension which assists users in language learning by compiling statistics of encountered words.

Ad Data Visualization
C#, Unity

- Developed an augmented reality visualization program for advertising data.
- Implemented a predictive model for future trends using a neural network.

Skills

Proficient in: C++, Python, JavaScript
Experience with: C, C#, Java, HTML, CSS, Arduino
Tools: Linux, Git, Visual Studio, Unity

Awards and Accomplishments

- 4x University of Toronto Dean's List
- Engineering Science Pong AI Tournament 2015 – 1st Place
- Hack the Valley 2017 – MLH Hack Harassment Award Winner
- Hack with IX 2016 – 3rd Place