Brandon Zhu

Bachelors in Electrical, Co-op Option| Carleton University | September 2014 - Present | brandonlucaszhu@gmail.com

RELEVANT SKILLS AND EXPERIENCES

Technical Skills

- Experienced in Java using BlueJ to implement the concepts of object-oriented programming
- Proficient in the language C/C++ with structures, pointers, arrays, linked lists, recursion, and lists in Pelles C IDE and Xcode
- Programming in MATLAB with interpolating and regression graphing, and solving sophisticated calculations such as linear systems, numerical integration and numerical differentiation
- Writing technical reports and presentations utilizing several office applications such as Microsoft Office, Google Docs, and Apple's iWork

Communication

- Acquired strong verbal, formal presentation, and active listening skills through school projects and work experience
- Actively striving to improve by seeking advice from peers and mentors
- Experienced in presenting informative and technical concepts clearly to an audience without any background knowledge
- Adept at collaborating and working with many individuals to accomplish technical projects
- Fluent in English and Cantonese

APPLIED PROJECTS

Foundations of Imperative programming, SYSC 2006 **September 2015 - December 2015**

- Designed, coded, tested and debugged small-scale C programs that were partitioned into multiple modules
- Traced a program's execution and drew diagrams that illustrated how memory was utilized by a C program
- Designed, coded and tested functions that operated on two fundamental data structures: Dynamic array and pointer-based singly-linked list
- Specified recursive algorithms and, converted these algorithms into recursive functions

Object-Oriented Software Development, SYSC 2004 **January 2016 - April 2016**

- Coded and created small-scale programs that utilized the fundamental concepts of object-oriented programming such as classes, objects, encapsulation, abstraction, inheritance, and polymorphism
- Developed programs modeled after real-life scenarios to understand the concepts of Java
- Designed a chess program using an abstraction as the base class for chess pieces and, utilized concepts of encapsulation, inheritance and polymorphism to create specified pieces such as the king, queen, bishop and etc

Reverse Engineering Project: **September 2014 - December 2014**

- Redesigned and innovated the packaging of Apple Ear buds by elevating the packaging into a product for preserving untangled earphones cords making it eco-friendly by utilizing less materials and, providing an extra design to make it travel efficient

- Utilized IntelliCAD to create the blueprints of the design, built the design using Creo parametric and, produced the final product through a 3-D printer

Water Gathering Project: **May 2015 - June 2015**

- Provided a presentation on how to transform large amounts of desalinated water into drinkable water for individuals in third world countries
- Collaborated with others to design a large waterway system to obtain desalinated water and convert it into fresh water

VOLUNTEER EXPERIENCE

IC Change: Ottawa, ON **October 2013 - June 2014**

- Fundraised to help third world countries in need of proper sanitation
- Responsible for obtaining and complete tasks required by the fundraiser leader

Kanata Tae Kwon Do: Ottawa, ON **September 2011 - June 2014**

- Supported the organization by teaching the basics of Tae Kwon Do to all age group
- Managed the dojo and properly organized martial art events

WORK EXPERIENCE

Family Take-Out Restaurant Business

- Learned to interact and resolve conflicts with customers
- Able to socially engage in conversations with confidence
- Adapted to working under pressure handling multiple phone lines when answering customer orders
- Have the ability to note down orders fast and use mental math to calculate them

Personal Electronics Business

- Helped individuals on designing and building a PC
- Repaired cracked phone screens