**Timothy Chan**

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## Education

**Bachelor of Applied Science, 2nd Year 2013 – Present**

University of Toronto

Department of Electrical and Computer Engineering

Relevant Courses: Electrical Fundamentals, Circuit Analysis, Digital Systems, Programming Fundamentals

CGPA: 3.18

## Technical Skills

**Applications:** Photoshop, Microsoft Word, PowerPoint and Excel

**Programming:** Python, C, C++, Verilog, MATLAB, UNIX System, SVN, HTML, CSS, JS, Android SDK

**Operating Systems:** Windows, Linux, iOS

## Engineering Projects

**Designer and Programmer**, Android Application Project, Freelance **Summer 2015**

* Developed an artificial intelligent talking app that could register information provided by the users, and produce relative responses
* Applied knowledge on Java and android SDK to create to application
* Invented the mechanism of the app by passing strings from users and matching it with the keyword library

**Designer and Programmer**, Communication and Design, U of T **Spring 2015**

* Collaborated with two other students to design and program a useable map system for navigating the city of Toronto using C++
* Applied knowledge related to visualization of the map to create an interactive platform for users
* Ranked 11 out of over 100 teams as a result of an effective design

**Designer and Programmer**, Digital System Project, U of T **Fall 2014**

* Collaborated with another student to design and produce a dancing arcade machine using **Verilog** coding, a DE2 board and knowledge learned from circuit design courses
* Effectively added dancing pads, audio and visual outputs for better featuring
* Integrated knowledge learned from circuit analysis course with new materials from Digital System
* Acquired full marks for the project, and it was suggested to be one of the best designs in class by the TA

**Programmer**, Programming Fundamentals Projects, U of T **Fall 2014**

* Implemented linked-list data structure using **C++** to simulate circuits, and automatically calculate the output voltage when the resistances and input voltages were given
* Applied object-oriented programming properties, including classes and inheritance, to build a database of shapes for creating images
* Acquired full marks for both projects as a result of high accuracy and good programming style

**Programmer**, Introduction to Computer Programming Project, U of T **Fall 2013**

* Designed and programmed a 2 player Sudoku-like game with limited instructions using **Python**
* Matched all the desired functions and outcomes as specified in the instructions
* Optimized the code by reducing the number of lines and loops used

## Work Experience

**Intern**, Perception Digital Ltd. **June 2015 – August 2015**

* Involved in various projects; tasks assigned include researching, testing products and designing app UI
* Participated in the development of a heart rate detecting headphone by testing and help designing the UI flow of the phone application
* Worked with a group of employees with different background to design gadgets and wearables

**Marketing Director and Sales Associate**, U of T Engineering Stores **Sept 2014 – April 2015**

* Drafted and edited advertisements using professional graphic design tools, including Photoshop, to promote products related to U of T Engineering and the store in general
* Advised the store manager with marketing strategies to promote the store through Facebook and other medias; monitor the store’s official Facebook and Twitter page
* Collaborated with a diverse team of employees in a fast paced environment

**Marketing Assistant**, Wah Kee Foods Ltd. **May – August 2013**

* Organized events and expeditions with a marketing team and designed the layout of the promoting booth
* Designed banners and promotion materials using Photoshop, which were later used in the HKTDC Food Expo
* Cooperated with a team of employees to finish projects in a provided time period

## Affiliations and volunteer

**Member**, University of Toronto Aeronautics Team **Sept 2014 – April 2015**

**Volunteer**, Costa Rica 15 days volunteering **March 2012**

## awards and accomplishments

* First Place in the University of Toronto Engineering Competition – Junior Design (2015)
* First Place in the Rotman Commerce Beyond Business Social Venture Challenge #2 (2015)
* Dean’s Honours List (2014)
* Engineering Month Challenge (Peterborough area) Winner (2013)
* Fermat Mathematics Contest - Certificate of Distinction (2013)

## interests and extra-curriculr activities

* Participant in the Entrepreneurship Hatchery’s Accelerator Weekend Competition (2015)
* Percussionist at Conference of Independent Schools of Ontario Music Festival (2012, 2013)
* Pianist in School Jazz Band, Violist and Percussionist at School Orchestra (2011 - 2013)