‍‍Chern Yee, Chua

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Objective\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Seeking internship in computer engineering field. Highly interested in software design and development as well as hardware/software interfaces.

Education\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University at buFFalo, THE state university of new york DEC 2015

Bachelor of Science in Computer Engineering , *3.9/4.0* GPA

Dean’s List (FALL 2013 – SPRING 2015)   
Member of Tau Beta Pi Engineering Honor Society, Tau Sigma Society, ACM UB Chapter, GDG Buffalo

Relevant Coursework\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Digital Systems, Data Structures, Computer Organization, Real-time & Embedded OS, Microprocessors & Microcomputers, Hardware/Software Integrated System, Computer Systems Administration, Operating Systems, Software Engineering

Skills & Abilities\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Technical skills  
Programming Skills: C, C++, Java, Python; HDL Verilog; Assembly MIPS, ARM; HTML, CSS, JavaScript and SQL  
Software Skills: Git/GitHub, Android Studio, PuTTy, Cygwin Terminal, Keil uVision, Multisim  
Operating Systems: Microsoft Windows, Linux, Android, Embedded Linux

Language proficiency

Chinese Mandarin (Native Fluency), English (Professional Proficiency), Malay (Competent Proficiency)

Employment Experience\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**UNDERGRADUATE RESEARCH ASSISTANT, UNIVERSITY AT BUFFALO SUMMER 2015 – PRESENT**

* Developed an eclipse plugin software that is capable of capturing all the changes under JavaModel in eclipse and record data to a file
* Collect data from students and analyze the data in order to teach beginner students how to code efficiently
* Check out the project on GitHub: <https://github.com/issacchern/Sapphire>

Academic Projects\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

BADGE TRACKING SYSTEM (GROUP PROJECT) SPRING 2015

* Used Arduino UNO microcontroller board with NFC chip and WIFI shield installed to implement tracking badge
* Localized badge device based on the relative distance from WIFI routers and sending to database manager
* Documented group project design and user guide

Bomberman in assembly language (Group Project) SPRING 2015

* Designed game requirements and schedules with partner
* Implemented Nintendo Bomberman game using ARM Assembly Language
* Optimized runtime performance of the game and utilization of peripherals

top-down parsing TREE (Group Project) SPRING 2015

* Developed a toy programming language that followed Chomsky notation with EBNF extensions in Java
* Constructed object-oriented parsing tree in JIVE which also handled semantic errors

Individual Project\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Android application development Summer 2014

* Customized a well-known Chinese game in both English and Chinese using AppInventor  
  Google Play Store: <https://play.google.com/store/apps/details?id=appinventor.ai_Issac_Chua12.Undercover_3&hl=en>

Volunteering and Experiences\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Tutoring engineering courses for Tau Beta Pi Engineering Honor Society **SPRING 2015 – PRESENT**
* Worked as student assistant at Pistachio, UB Campus Dining & Shops **SPRING 2014 – SPRING 2015**