

# CHANG CHU-MING

✉ changchuming@gmail.com ☎ (+65) 90437467 🏠 Block 639 Pasir Ris Drive 1 #02-550 Singapore 510639

## EMPLOYMENT

|  |                                     |                                 |
|--|-------------------------------------|---------------------------------|
| <b>Research Intern</b>   | <b>Huawei Technologies</b>          | <b>June – September 2016</b>    |
| <ul style="list-style-type: none"><li>Research Intern under SHIELD Lab</li><li>Conducted research on 5G vehicle-to-everything communications</li><li>Established network function virtualization architecture to emulate telecommunication elements</li></ul>  |                                     |                                 |
| <b>Software Engineer, part-time</b>  | <b>Razer (Asia Pacific) Pte Ltd</b> | <b>February – April 2014</b>    |
| <ul style="list-style-type: none"><li>Part-time software engineer under Software Quality Assurance</li><li>Streamlined process of testing new products by creating an online inventory system for employees to log item transactions</li><li>Improved efficiency of product testing by implementing an automated testing framework</li></ul> |                                     |                                 |
| <b>Intern</b>  | <b>K-Link Technologies</b>          | <b>November – December 2008</b> |
| <ul style="list-style-type: none"><li>Intern at K-Link Technologies in Tsingchu, Taiwan</li><li>Implemented user interface to control camera movements for a video surveillance program</li></ul>  |                                     |                                 |

## EDUCATION DETAILS

### National University of Singapore

- Pursuing Bachelor Degree in Electrical Engineering, Senior
- Current GPA: 4.88/5 (First class honors)
- Top student in Electrical Engineering (AY2014/2015)
- Deans List (AY2015/2016 Semester 1)

### Cambridge GCE 'A' Levels

- Attained A for all 7 subjects taken under Cambridge GCE 'A' Levels

## TECHNICAL EXPERIENCE

### Projects

- Launderer (2016)** – Laundry notification app for students living in dorm, using NFC reader and Raspberry Pi
- eyeSky (2015)** – Self-built quadcopter with mounted Raspberry Pi that takes photos, upload to server and reconstructs 3D models of objects or buildings (In progress)
- 3Dify (2015)** – Web app which reconstructs 3D models based on 2D images uploaded by users
- Scheduleit! (2014)** – Scheduling web app with an intuitive click and drag interface that lets users schedule ad-hoc events with their friends
- Just Another Tower Defense (2012)** – Cross-platform tower defence game, incorporating accelerometer elements for skill shots and abilities

## ADDITIONAL EXPERIENCE AND AWARDS

### National University of Singapore

- Part of the coreteam on NUS Hackers – organize hackathons and hacking-related events, manage relations with industry sponsors
- Global Engineering Programme & Scholarship
- ST Engineering Award (Top Student in Electrical Engineering)

## SKILLS, LANGUAGES AND TECHNOLOGY

### Languages

- Fluent in both English and Chinese (Spoken and written)

### Software

- Visual Basic, C++, PHP, MySQL – Prior experience in web & application development
- Java – Experience in developing and deploying applications in Eclipse & Android Studio
- Javascript – Experience in web development using Node.js with Redis

### Hardware

- ARM architecture – Familiar with ARM architecture, experience in programming ARM processors using Assembly & C
- Systems modeling – Experience in modeling electronic systems (FPGA) using Verilog
- Circuit design and simulation – Experience in circuit design on breadboards and PCBs, circuit simulation using LTSpice
- Electrical analysis – Experience in electrical analysis with measurement equipment, i.e. oscilloscopes, function generators, etc.
- Strong knowledge of digital fundamentals and electromagnetics
- Familiar with a wide range of tools and IDEs