CHANG CHU-MING

EMPLOYMENT

Research Intern **Huawei Technologies** June - September 2016

- Research Intern under SHIELD Lab
- Conducted research on 5G security and its application to vehicle-to-everything communications
- Established network function virtualization architecture to emulate telecommunication elements

Software Engineer, part-time

Razer (Asia Pacific) Pte Ltd

February - April 2014

- Part-time software engineer under Software Quality Assurance
- Streamlined process of testing new products by creating an online inventory system for employees to log item transactions
- Improved efficiency of product testing by implementing an automated testing framework

Intern

K-Link Technologies

November - December 2008

- Intern at K-Link Technologies in Tsingchu, Taiwan
- Implemented user interface to control camera movements for a video surveillance program

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

- eveSky (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.xyz (2015) Web app which reconstructs 3D models based on 2D images uploaded by users
- scheduleitfor.me (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
- Small scale projects with Raspberry Pi and Arduino, e.g. printer server, webcam server, automated cover opener, Bluetooth remote control

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)

- 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 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 signals and electromagnetics
- Familiar with a wide range of tools and IDEs