

CHANG CHU-MING

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EMPLOYMENT

Research Intern	Huawei Technologies	June – September 2016
<ul style="list-style-type: none">Research Intern under SHIELD LabConducted research on 5G vehicle-to-everything communicationsEstablished network function virtualization architecture to emulate telecommunication elements		
Software Engineer, part-time	Razer (Asia Pacific) Pte Ltd	February – April 2014
<ul style="list-style-type: none">Part-time software engineer under Software Quality AssuranceStreamlined process of testing new products by creating an online inventory system for employees to log item transactionsImproved efficiency of product testing by implementing an automated testing framework		
Intern	K-Link Technologies	November – December 2008
<ul style="list-style-type: none">Intern at K-Link Technologies in Tsingchu, TaiwanImplemented 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

- 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.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)

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 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