Yan Jie, Kee

Email: keeyanjie2013@gmail.com
Phone No: +44 7407 316805

◊ SUMMARY

A hardworking and motivated individual, I was awarded the Zepler Prize for having the top mark in Electrical & Electronic Engineering Part I, 2018/19. I am proficient in System Verilog, C, C++ programming languages as well as a number of simulation software programmes. While I am keen on maths, I also have the tendency to be especially persistent when it comes to solving problems. It is my philosophy to truly understand the underlying principle of something that piques my interest.

◊ EDUCATION

University of Southampton ***2018-***
MEng in Electronic Engineering, Second Year ***2022***

Modules:

First Year: Digital System & Microprocessor · Advanced Programming · Electronic System · Mathematics for EEE · *(Overall mark: 90%)*

Second Year: Digital System & System Processing · Computer Engineering · Electronic Design · Control & Communication · Advanced Electronic Systems

Projects:

Digital Stopwatch Design ..... *Oct 2019*

- ▷ A stopwatch with 99.9 seconds range consisting of synchronous counters, a nibble multiplexer and a seven-segment decoder
- ▷ Designs are simulated on an IC design environment and sent for fabrication
- ▷ Circuits are fitted on an area of 146μm x 135μm, part of TSMC 0.18μm-tech chip

Software: Tanner S-edit, L-Edit

Interactive Whiteboard Client-server ..... *May 2019*

- ▷ An interactive whiteboard which pairs of users can use to view and edit on their respective Raspberry Pi simultaneously
- ▷ Created a GUI for better user experience using a widget toolkit, Qt5
- ▷ Designed a communication protocol that is connected by the Raspberry Pis' GPIO
- ▷ Implemented a thread-safe environment with pThread library

Languages: C++

Digital System and Microprocessor Design ..... *Jan 2019*

- ▷ Design a simple microprocessor using System Verilog and run it on the DE1-SoC Development Board (Altera Cyclone V FPGA)
- ▷ Microprocessor modules functionalities are verified in a simulation environment
- ▷ Instruction sets are modified to perform XOR-cipher encryption and decryption tasks.

Languages: System Verilog · Software: ModelSim, Quartus

UEM Foundation College, KYUEM ***2017-***
Cambridge A-Level ***2018***

Grades: Physics (A*), Chemistry (A*), Mathematics (A*), Further Mathematics (A*)

Prizes: Certificate of Acheivement: Excellence in the subject of Further Mathematics for Semester of July to December 2017

◊ ACHIEVEMENTS

Zepler Prize 2018/19 ..... *Nov 2019*

- ▷ Top mark in Electrical & Electronic Engineering Part I 2018/19 with a grade average of 90%

Master of Mainframe Part 2 Badge ..... *Dec 2019*

- ▷ Completed Part 2 of the challenge about the latest IBM-Z mainframe.
- ▷ Gained experience with programming languages like Db2, JCL and operating system z/OS.

◊ TECHNICAL SKILLS

Coding Languages:	C, C++, System Verilog, MATLAB
Software:	ModelSim, Quartus, LT-Spice, Tanner S-edit, L-edit, EAGLE PCB Software
Other:	Git, Embedded system, Qt5, LaTeX

◊ EXTRACURRICULAR ACTIVITIES

Malaysian Students Association - Male Sports Officer ..... *May 2018 - present*

- ▷ Taking care of the welfare of Malaysian students studying at the University.
- ▷ Arrange weekly sports session and occasional sports events for the society members.

Nepal Project (Student-led) – Event manager ..... *Jun 2017*

- ▷ Responsible for the cultural trip planning and directing performances for visitation to schools, orphanage and monastery at Nepal
- ▷ Fundraised primarily for schools severely affected by the 2008 earthquake

Cross-country Running – President ..... *Jun 2015*

- ▷ Assign tasks to sub-groups and have regular meetings to ensure cooperation between team leaders.
- ▷ Manage event involving 1000+ participants and ensure the safety of every student

◊ INTERESTS

Basketball	A passion that has been following me for more than 10 years. I played competitively during high school
Reading	Particularly inclined towards Popular Science genre, for example, *Thinking Fast and Slow* by Daniel Kahneman.

◊ LANGUAGES

English (Fluent) · *Mandarin (Native)* · *Malay (Native)*

◊ REFERENCES

Dr Jize Yan (Personal Tutor, University of Southampton) j.yan@southampton.ac.uk