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Education ____

Texas A&M University

College Station, United States

Aug. 2019 - Present

PHD IN COMPUTER ENGINEERING

Advisor: Dr Paul Gratz

Imperial College London

London, United Kingdom

BACHELOR OF ENGINEERING IN ELECTRICAL AND ELECTRONIC ENGINEERING, SECOND-CLASS HONOURS, UPPER DIVISION (2.1)

Oct. 2016 - Jun. 2019

• BEng Final Year Project: A high level schematic editor for simplified Hardware Description Language (HDL) Entry

Skills _

Programming C, C++, Verilog HDL, Arm Assembly, Matlab, Python, HTML, CSS, JavaScript, SQL, F#

Frameworks Flask, Electron, Fable, Node.js

Languages Chinese(Native), English(TOEFL 106, IELTS 7.0), Japanese(JLPT N3 Pass) **Extra** Autodesk AutoCAD, LaTeX, Microsoft Office, git, Chinese flute (Dizi)

Experience

Imperial College Union

London, United Kingdom

Nov. 2018 - Mar. 2019

STUDENT SYSTEM ADMINISTRATOR (PART TIME)

- Working with the Imperial College Union Administration Team.
- Configuring and maintaining WordPress websites for student clubs and societies at Imperial College London.

Fleetonomy Tel Aviv, Israel

SOFTWARE ENGINEERING INTERN (FULL TIME)

Jul. 2018 - Sep. 2018

- Developing the testing interface as part of a Uber-like web application in Python, JavaScript and SQL.
- · Worked on frontend, backend, unit test and database.
- · Worked on integrating third-party monitoring services such as Datadog via API calls to the web application.

Summer Academy of Code

Oxford, United Kingdom

LEARNER Sep. 2017

- · Learning dynamic website developing and hosting.
- Developed an online accounting application using Node.js.

Global IELTS Changshu, China

• Teaching students English reading, listening, speaking writing and vocabulary to prepare for TOEFL (English proficiency exam).

Piwars

Competitor

Competitor

Competitor

- · Robotics competition. Teamed up with BigSubhakrish Krishnamra, Haojun Zhang, Hang Su and Ruochen Zhao.
- Designed and built a functional remote-control car based on the Raspberry pi with sensors.

Global IELTS Changshu, China

ENGLISH TEACHING ASSISTANT (PART TIME)

Aug. 2016 - Sep. 2016

Helping students learn and memorize English words required for English proficiency test.

Marking vocabulary exercises and giving feedback to students.

Projects .

Encryption AlgorithmLondon, United Kingdom

School Coursework Dec. 2016

• RSA-based encryption decryption system written in C++.

2048 London, United Kingdom

• Command line interface implementation of the classic 2048 game, written in C++.

First Year Project London, United Kingdom

SCHOOL COURSEWORK Nov. 2016 - May. 2017

· Built a remote-control rover with the capability of detecting waves and calculating the corresponding frequencies.

Personal Website London, United Kingdom

PERSONAL PROJECT

SCHOOL COURSEWORK

SCHOOL COURSEWORK

Apr. 2017

Feb 2017

· Personal website development in HTML, CSS, JavaScript. Deployed in AWS S3.

Second Year Project London, United Kingdom

· Gloves with sensors built in to detect palm facing, acceleration and finger bending for sign language translation.

- The readings from sensors are used in training machine learning models.
- Sign language translation achieved by feeding sensor readings to machine learning models.
- https://wilsonwang881.github.io/Glovoice/

A Web-based Price Calculator

London, United Kingdom

Nov. 2017 - Mar. 2018

PERSONAL PROJECT Nov. 2018

- Used for applying internship at UNiDAYS.
- https://wilsonwang881.github.io/UNiDAYSApplication/

Adding Features to Visual2, the Arm Assembly Simulator

London, United Kingdom Jan. 2019 - Mar. 2019

SCHOOL COURSEWORK

• Teamed up with Andrei Pietreanu, Leszek Nowaczyk and Wim van der Schoot. Coding in F# and JavaScript.

The project added new features to Visual2, including pipelining display, multiplication instructions and improvement to the error messages.

Using FPGA for Algorithm Acceleration

London, United Kingdom

Jan. 2019 - Mar. 2019

SCHOOL COURSEWORK

· Teamed up with Yaukuen Lam.

- Configure a FPGA device to run the NIOS II processor.
- · Algorithm written in C and uploaded to the FPGA device. The NOIS II processor running on FPGA then executed the C program.
- · Explore ways to reduce execution time, including using pipelining, different types of multipliers, and the CORDIC algorithm.
- · Customized hardware blocks to realize the CORDIC algorithm with pipelining.
- · Result was promising as using dedicated hardware did reduce the execution time significantly. However, the tradeoff was an increase in hardware usage.

Final Year Project London, United Kingdom

SCHOOL COURSEWORK

GROUP PROJECT

Apr. 2019 - Jun. 2019

Aug. 2019 - Now

- · Cross-platform graphical hardware description language (HDL) editor that outputs Verilog HDL code which can run on FPGA devices, imple-
- Integrated with the Fable compiler to transpile F# to JavaScript.
- Transpiled JavaScript code run under the Electron framework.

Robomaster College Station, United States

• Writing C code to control robots for various tasks, including movement and gimbal actions.

• Expect to participate the 2020 Robomaster Competition in Shenzhen.

Book-Keeper College Station, United States

GROUP PROJECT • Software for handling reimburse requests within the TAMU Robomaster Society. May. 2020 - Now

- · Technology stack: React, Nginx, Gunicorn, Python Flask, deployed using Docker.
- https://github.com/GigaMansion/Book-Keeper