Jeter Hwang

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EDUCATION

2018/9 - PRESENT

B.S.
Electrical
Engineering

NATIONAL TAIWAN UNIVERSITY

- **GPA : 3.87 / 4.3**
- **Relevant Courses**: Computer Programming, Switching Circuit and Logic Design, Electronic Circuits, Special Topics on Data Science, Electronics (Ⅰ), Electronics (Ⅱ), Electromagnetics (Ⅰ), Electromagnetics (Ⅱ), Data Structure and Programming, Integrated Circuit Design, Computer Architecture

RESEARCH EXPERIENCE

2020/9 - PRESENT

Advisor:
Prof. Yi-Chang Lu

Lab for Data Processing Systems

- Under graduate researcher
- 2020/9 ~ 2021/1: Hardware Acceleration on **RNA/DNA/protein sequence alignment**.
- Current Work: Hardware Acceleration on **Monte Carlo simulation**

2021/2 - PRESENT

Advisor:
Prof. Tzi-Dar Chieuh

MicroSystem Research Lab

- Under graduate researcher
- Current Work: Use **Pytorch** to train neuron model on CIFAR10 dataset

PROJECTS

2019/2 - 2019/6

Instructor:
Prof. Tzi-Dar Chiueh

Arduino self-driving car

- A programmed electric car that can walk the maze and read RFID card as score
- Tool used : **Arduino Uno**, **RFID module, Bluetooth module**, voltage scaling module, color sensor, motor
- Language used : C
- **video link : https://youtu.be/uX1yvIdoUxc**

2020/9 - 2021/1

instructor:
Prof. Chia-Hsiang Yang

FPGA-based gobang AI

- A gobang(五子棋) AI implemented on **FPGA(Field Programmable Gate Array)** using hardware compatible algorithm
- **RS232** transmitting protocol is used as a bridge between PC and FPGA

- Python send next move to **backend** which, together with **frontend** interface, interact with human player.
- Tool used : **DE2-115, Quartus2(15.0), Node.js**
- Language used : System Verilog, Python, Javascript
- **video link : https://youtu.be/OOmJq3Fq77g**

VOLUNTEERING

2020/9 - PRESENT   **International Companions for Learning**

Ministry of Education
- A program for **international students** in Taiwan. International students introduce their country to the elementary school students and I serve as an interpreter between both sides.

SKILLS

🔵 LANGUAGE

| **Python** | **C++** | **Verilog** | **Javascript** |
| professional | professional | professional | median |

🔵 HARDWARE PLATFORM

| **FPGA** | **Arduino** | **Raspberry pi** |
| project experience | project experience | limited |

🔵 OS

| **Linux(Ubuntu)** | **Windows** |
| professional | professional |

🔵 OTHERS

Git
professional

🔵 LANGUAGE PROFICIENCY

| **English** | **Chinese** |
| TOEIC 930 | Native |