Lin-Yung Hsieh

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EXPERIENCE

Intern at Industrial Technology Research Institute (ITRI)   Jul. 2021 – Present
Summer Intern at Information & Communications Research Laboratories (ICL)   HsinChu, Taiwan
- **Video Coding for Machines (VCM)**
- Dynamically quantize the feature maps in **Detectron2** Model and observe the change in mAP of object detection

Teaching Assistant in "Embedded System Laboratory" Course   Feb. 2021 – Jun. 2021
National Tsing Hua University (NTHU), Instructor: Prof. Jing-Jia Liou   HsinChu, Taiwan
- Use C++ and Python to control the embedded board and communicate with other devices like PC
- Course coverage: embedded system, serial communication, machine learning, wireless communication, sensors, etc

Undergraduate Research Student in Vision Science Lab (VSLab)   Jul. 2020 – Jun. 2021
National Tsing Hua University (NTHU), Instructor: Prof. Min Sun   HsinChu, Taiwan
- Research Topic: **A Study on Active Learning for Improving Object Detection Model in Home Care System Using Limited Amount of Data**
- Sample out false positive and false negative frames in video
- Apply **active learning** to improve the performance of our model when it is placed in a new environment

COMPETITIONS

MeiChu Hackathon Competition - 1st Place   Oct. 2020
- Collect the mouse data while a player is playing games and detect whether he/she is cheating using machine learning
- We won **the first place** out of 54 teams, which was reported in news

ChungHua Telecom: AIOT Hackathon Competition   Aug. 2019
- Implement license plate recognition on Raspberry Pi 3 using PyTorch APIs
- Send the result back to ChungHua Telecom IOT Platform to detect whether it is a stolen car

EDUCATION

National Tsing Hua University   Sep. 2018 – Jun. 2022
Bachelor in Electrical Engineering   HsinChu, Taiwan
- **Courses**: Data Structure, Computer Architecture, Operating System, Analog Integrated Circuits, VLSI Design
- **Overall GPA**: 3.83/4.3

SKILLS

Languages : Python, C/C++, Matlab, Verilog, Assembly
Tools : GitHub, VS Code, Linux, Hspice, Laker

EXTRACURRICULAR ACTIVITIES

NTHU EE Camp   Jul. 2019 & Jul. 2020
- Teach high school students C Language, logic design, and help them finish a radio-controlled car using Arduino

Activities Director of EE Student Association   Sep. 2019 – Jun. 2021
- Plan and organize all the activities in our department such as EE-Week