
Education

- 2020 – Now **National Tsing Hua University**, *M.S. in Electrical Engineering*.
Advisor: [Prof. Min Sun](#) (VSLab)
- 2017 – 2020 **National Tsing Hua University**, *B.S. in Electrical Engineering*.
GPA: 3.90/4.30 (Overall), 3.94/4.30 (Major)
Ranking: 18/61, 36/112
- 2016 – 2017 **National Central University**, *Dept. of Computer Science*.
Transferred to National Tsing Hua University at Sept. 2017

Experience

- Summer 2020 **National Tsing Hua University Vision Science Lab**, *Hsinchu*, Taiwan.
◦ Participating in [CarePLUS.ai](#), an AI-assisted home care system project.
◦ Worked on AI model training and pipeline integration.
◦ Developed several privacy-preserving image visualization algorithms.
- 2019 – 2020 **Edony A.I. (startup)**, *Taipei*, Taiwan.
◦ Worked on vision-based liquid level tracking algorithms.
◦ Proposed a method for monitoring the change of frozen liquid in factories.
- 2018 – 2019 **National Tsing Hua University Vision Science Lab**, *Hsinchu*, Taiwan.
◦ Worked on tiny object detection in aerial images.
◦ Worked on human action/event prediction in virtual environment.

Projects

- 2019 – Now **Awesome Tiny Object Detection**
A curated list of awesome papers, datasets, surveys and articles for tiny object/face/pedestrian detection. Starred by 300+ and forked by 60+ GitHub users worldwide. [\[link\]](#)
- Spring 2020 **Remove the People: Segmentation-Based Object Removal**
A two-stage object removing algorithm which first generates segmentation mask by filter-based method, then remove objects in images by seam carving technique. [\[report\]](#)
- Spring 2020 **Compiler Implementation**
A simple compiler implementation which targets on subset of C language and generates RISC-V assembly code. Includes lexical analyzer, syntax analyzer and code generator. [\[link\]](#)
- Fall 2019 **Operating System Engineering**
An OS thread package, targeting at Edsim51 simulator, which supports thread creation, cooperative switching, preemptive switching and termination. [\[link\]](#)
- Spring 2019 **Predict Flue-Gas Desulfurization using Random Forest Classifier**
A classification mechanism for predicting Flue-Gas Desulfurization level based on scikit-learn's RandomForestClassifier. Ranked 1st out of 9 teams.

Patents

- March 2020 **Measuring device**
A device which tracks liquid level, containing a webcam, a motor, an NVIDIA Jetson Nano and other elements. Work done during the internship at Edony A.I. [\[link\]](#) [\[Espacenet\]](#) [\[demo\]](#)

Relevant Coursework

Undergraduate

Algorithms, Data Structures, Operating Systems, Computer Architecture, Compiler Design, Intro. to Computer Networks, Intro. to Digital Signal Processing

Graduate

Machine Learning, Computer Vision

Skills

Programming Python, C++, C

Software Git, Vim, PyCharm, Visual Studio Code

Languages Chinese (native), English (conversational), Korean (beginner)