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## 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

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## 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.

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## 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 250+ and forked by 50+ 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.

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## 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. [\[link\]](#) [\[Espacenet\]](#) [\[demo\]](#)

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## 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

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## Skills

Programming Python, C++, C

Software Git, Vim, PyCharm, Visual Studio Code

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