

## INDUSTRIAL EXPERIENCE

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### Google

*Software Engineer III*

**Jun. 2022 – Present**

*New Taipei City, Taiwan*

- Lead a project for validating Google chips by software.
- Manage the build environments (including CI/CD) of a software group.

### Synology Incorporated

*Research developer*

**Nov. 2017 – May 2021**

*New Taipei City, Taiwan*

- Led a group of 3 people to bring up 3 solid-state drive product series, increasing about 1% annual revenues (about 2 million USD/year).
- Maintained Linux NVMe and Intel NIC drivers for *DiskStation Manager* and contributed 1 patch, solving a prospective race condition, to Linux Kernel community.
- Developed software features such as *Drive Firmware Upgrade Manager*, *Bad Block Management*, etc. of the *Storage Manager* package on *DSM*.

### Lumens Digital Optics Incorporated

*Technical consultant assistant*

**Apr. 2015 – Jul. 2017**

*Hsinchu, Taiwan*

- Analyzed computer vision algorithms, including stereo camera calibration, colored filter array interpolation, etc.
- Developed a camera system on NVIDIA Jetson TX2 platform for human tracking and video recording.

## EDUCATION

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### National Taiwan University

*M.S. Biomedical Electronics and BioInformatics, GPA: 3.76/4.3, Major GPA: 4.12/4.3*

**Sep. 2015 – Jun. 2017**

*Taipei, Taiwan*

- **Relevant courses:** Computer Vision, Advanced Computer Vision, Artificial Intelligence, Machine Learning Foundations, Machine Learning, Machine Learning Techniques

### National Sun Yat-Sen University

*B.S. Computer Science and Engineering, GPA: 3.89/4.3, Major GPA: 4.15/4.3*

**Sep. 2011 – Jun. 2015**

*Taipei, Taiwan*

- **Relevant courses:** Linear Algebra, Probability, Algorithms, Operating System, UNIX System Programming, Digital Image Processing

## RESEARCH EXPERIENCE

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### Academia Sinica

*Research assistant, Advisor: Ming-Ching Chang, Richard Tzong-Han Tsai*

**Jul. 2021 – Jun. 2022**

*Taipei, Taiwan*

- Developing computer vision algorithms and software for Map AI to extract geographic features from historical maps of Taiwan with weakly-labeled data.

### Digital Camera and Computer Vision Laboratory @ National Taiwan University

*Research assistant, Advisor: Chiou-Shann Fuh*

**Apr. 2015 – Jun. 2017**

*Taipei, Taiwan*

- Researched computer vision, digital image processing, and digital camera (ISP) algorithms.
- Focused on developing visual tracking algorithms and methods for defect inspection from X-ray images of printed circuit boards.

## AWARDS AND ACHIEVEMENT

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ACM-ICPC Contest Council for Taiwan Collegiate Programming Examination: Drafter	2017
The Phi Tau Phi Scholastic Honor Society of the Republic of China: Honorary Member	2015
NSYSU CSE Undergraduate Project Competition: Popularity Award	2014
The 38 <sup>th</sup> ACM-ICPC World Final, Russia, June 2014: Honorable Mention	2014
National Sun Yat-Sen University Excellent Student Award	2013
ASE Group scholarship	2013
National Sun Yat-Sen University Undergraduate Programming Contest: 3 <sup>rd</sup> place	2012
Southern College Programming Competition: 2 <sup>nd</sup> place	2012

## LEADERSHIP / EXTRACURRICULAR

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### **NSYSU Code Club**

*Founder*

**2015**

*National Sun Yat-Sen University*

### **Student Association Team of Department of CSE**

*Representative*

**2013 – 2014**

*National Sun Yat-Sen University*

### **Basketball Team of Department of CSE**

*Leader*

**2012 – 2013**

*National Sun Yat-Sen University*

### **NSYSU CSE Summer Camp**

*Counselor*

**2012**

*National Sun Yat-Sen University*

## TECHNICAL SKILLS

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**Programming:** C, C++, Python, JavaScript, PyTorch, OpenCV, Linux Kernel, Little Kernel

**Developer skills:** Linux, Git, Vim,  $\text{\LaTeX}$