Cheng-Shih Wong

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INDUSTRIAL EXPERIENCE

Google Jun. 2022 – Present
Software Engineer III *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 Nov. 2017 – May 2021
Research developer *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 Apr. 2015 – Jul. 2017
Technical consultant assistant *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

National Taiwan University Sep. 2015 – Jun. 2017
*M.S. Biomedical Electronics and BioInformatics, **GPA: 3.76/4.3, Major GPA: 4.12/4.3*** *Taipei, Taiwan*
- **Relevant courses**: Computer Vision, Advanced Computer Vision, Artificial Intelligence, Machine Learning Foundations, Machine Learning, Machine Learning Techniques

National Sun Yat-Sen University Sep. 2011 – Jun. 2015
*B.S. Computer Science and Engineering, **GPA: 3.89/4.3, Major GPA: 4.15/4.3*** *Taipei, Taiwan*
- **Relevant courses**: Linear Algebra, Probability, Algorithms, Operating System, UNIX System Programming, Digital Image Processing

RESEARCH EXPERIENCE

Academia Sinica Jul. 2021 – Jun. 2022
Research assistant, Advisor: Ming-Ching Chang, Richard Tzong-Han Tsai *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 Apr. 2015 – Jun. 2017
Research assistant, Advisor: Chiou-Shann Fuh *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.

TECHNICAL SKILLS

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

Developer skills: Linux, Git, Vim, LaTeX