

TZU CHUN, HSU

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WORK EXPERIENCE

Camera ISP Engineer

AI camera algorithm development @ Realtek Semiconductor Corp.

02 2025 – present

Hsinchu, Taiwan

- ISP Auto Verification, CModel, and SDK development.

EDUCATION

Zhejiang University

Bachelor of Engineering in Computer Science and Technology

- Last two years GPA: 3.30/4.00

09 2016 – 07 2020

Hangzhou, China

National Yang Ming Chiao Tung University

Master of Science in Computer Science and Engineering

- Overall GPA: 4.19/4.30

09 2022 – 02 2025

Hsinchu, Taiwan

PROJECTS

Chord learning and adversarial framework for symbolic music generation

04 2018 – 05 2019

Hangzhou, China

- Proposed a chord learning framework for multi-track symbolic music generation based on VAE and GAN.
- Introduced WGAN-GP to solve mode collapse and vanishing gradient problem.

Voice Conversion Based on Generative Adversarial Networks

03 2020 – 05 2020

Hangzhou, China

- Improved StarGAN-VC2 based on multi-speaker non-parallel corpus.
- Introduced WGAN-div, AdaIN layer, and neural vocoder, WaveGlow, for better generated audio quality.

Floating image quality compensation algorithm technology

08 2023 – 02 2025

Hsinchu, Taiwan

- Enhanced image quality of floating images degraded by hardware imperfections.
- Proposed a two-stage method: (1) simulating the imaging process by solving a QP problem derived from optical principles, and (2) refining light field images through iterative optimization based on the simulation.

AWARDS

CCCC-Mobile Application Innovation Contest

First Prize and Most Innovative Award

09 2018

Hangzhou, China

The 4th "Internet+" Innovation and Entrepreneurship Competition

Gold Award

09 2018

Hangzhou, China

SKILLS

Languages

Python, Java, C, JavaScript, SQL

Technologies/Frameworks

PyTorch, Flask, Spring Boot, Vue.js, Git, MySQL, MongoDB