Yu-Wei Chen (+886)0911187345 | **⊠** | **in** | **○**

EXPERIENCE

Algorithm Engineer

NovaTek Microelectronics Corp.

- Maintain IP of image scaler
- Design and own the IP of AI highly compressed video enhancement
- Design algorithms of detail adjustable AISR and improve algorithm of AI de-flicker
- Technical study, include HDR, diffusion model on computer graphics and computational photography

Teaching Assistant [EE-3031 Computer Programming]

National Taiwan University

• Provide TA hours, support weekly problem-solving seminars, assign and correct assignments and final exam.

AI Research Intern

Caloudi Corporation

- Fully process time series anomaly detection and forecasting, use signal processing and ML techniques with Python
- Create and manage RESTful API of anomaly detection and forecasting and deploy on Azure app service

EDUCATION

National Taiwan University

M.S. in Graduate Institute of Communication Engineering Data Science and Smart Networking Group

- GPA: 4.2/4.3 Ranking: 26/141(18.4%)
- Selected Courses: Advanced Computer Vision, Digital Visual Effect, 3D Computer Vision with Deep Learning Applications, Deep Learning Computer Vision
- Master Thesis: Multiple Degradation Image Enhancement, Domain Adaptation, Object Detection and Beyond Advisor: Prof. Soo-Chang Pei

National Central University

B.S in Computer Science and Information Engineering

- Credit: 170 GPA: 3.93/4.0 (Overall) 4.0/4.0 (Major)Ranking: 24/134 (17.9%)
- Interdisciplinary program: creativity and entrepreneurship program
- Selected Courses: 3D Computer Graphics, Computer Vision an Overview, Artificial Intelligence, Neural Network, Computational Intelligence, Introduction to Deep Learning, Software Engineering Practices
- Undergraduate Research: AI Camera: Application of Photography Aesthetic Assessment Based on Neural Networks Adviser: Prof. Mu-Chun Su
- Leadership: Minister of Manuscripts Group, Literary Award of National Central University

PUBLICATION

- [1] Yu-Wei Chen*, Soo-Chang Pei. "Always Clear Days: Degradation Type and Severity Aware All-In-One Adverse Weather Removal", arXiv, 2024. Citation: 3
- [2] Yu-Wei Chen*, Soo-Chang Pei. "Domain Adaptation for Underwater Image Enhancement via Content and Style Separation" IEEE Access, 2022. Citation: 20
- [3] Yu-Wei Chen*, Soo-Chang Pei, Chiou-Shann Fuh, "DTLN: A Deep Two branch Lightening Network with Saturation Adjustment for Low light Enhancement", in Proc. of the 34 th IPPR Conf. on Computer Vision, Graphics and Image Processing (CVGIP), Aug.22 24, 2021.

Awards and Honors

- Second Place in 2019 International ICT Innovative Services Awards Titansoft agile develop award
- Excellent grades in 2019 AICUP

Technical Skills

2020/9 - 2022/6

Taoyuan, Taiwan 2017/9 - 2020/6

Taipei, Taiwan

2022/9 - Present

Hsinchu, Taiwan

2021/2 - 2021/7

2020/7 - 2020/9Taipei. Taiwan

Taipei, Taiwan