

# Chung-Ho (Kenneth) Wu

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## EDUCATION

### National Yang Ming Chiao Tung University

Hsinchu, Taiwan

*M.S. in Multimedia Engineering. Advisor: Yu-Lun Liu.*

Sep 2023 – Present

*Courses: XR Camp, Deep Learning, Perception and Decision Making in Intelligent Systems, Image Processing, Video streaming and tracking, Computer Animation and Special Effects, Parallel Programming.*

### National Yang Ming Chiao Tung University

Hsinchu, Taiwan

*B.S. in Computer Science.*

Sep 2019 – June 2023

## PUBLICATIONS

### Fast Few-shot NeRF

Under Review at CVPR2025

Chung-Ho Wu\*, Chin-Yang Lin\*, Changan Yeh, Alex Yen, Cheng Sun, Yu-Lun Liu

*Model Acceleration, Memory Efficient*

- Proposed a 3D scene reconstruction method from sparse input images, achieving state-of-the-art quality. Significantly outperformed existing approaches with a 10x improvement in training times, while eliminating the need for pre-trained priors such as monocular depth.

### 360° Unbounded Scene Inpainting

Under Review at CVPR2025

Chung-Ho Wu\*, Yang-Jung Chen\*, Ying-Huan Chen, Jie-Ying Lee, Bo-Hsu Ke, Chun-Wei

*Diffusion, 3DGS*

Tuan Mu, Yi-Chuan Huang, Chin-Yang Lin, Min-Hung Chen, Yen-Yu Lin, Yu-Lun Liu

- Proposed a novel 360° unbounded scene inpainting method leveraging depth-aware Gaussian Splatting and diffusion priors to achieve high-quality object removal with geometric accuracy and multi-view consistency.

## EXPERIENCE

### AI Software intern

April 2024 – Oct 2024

Qualcomm

*Python, C++, LangChain*

- Studied the process of converting Python frontend models to formats compatible with company chips.
- Explored the use of PyBind to integrate Python with C++ for converting Python frontend to C++ IR.
- Developed an scalable ticket analysis pipeline using LangGraph and LLMs to summarize ticket-related code diffs, enabling quick understanding of issues and solutions by linking ticket numbers to relevant code changes
- Contributed to the company's internal LLM framework, successfully merged into the main codebase.

### 3D Modeling Intern

May 2023 – Aug 2023

ITRI

*Python, PyTorch, NerfStudio*

- Contributed to high-quality 3D reconstructions for online shopping products, incorporating AI techniques.
- Researched and implemented methodologies for the transformation from the Neural Radiance Field into dynamic meshes and textures with spherical harmonic parameters, integrated into the traditional rendering pipeline.
- Focused on literature review, utilizing Python, PyTorch, and NerfStudio API.

## PROJECTS

### PDM Project: Perception and Decision Making in Intelligent Systems

Sep 2023 - Jan 2024

- Leading a project focusing on SLAM, 3D semantic reconstruction, indoor robot navigation, and robot manipulations framework.
- Key areas of expertise include Robotics, Computer Vision, Python, PyTorch, OpenCV, and Open3D.

### Boosting Zero-shot text-prompt segmentation

Sep 2023 - Jan 2024

- Design and boosting details of zero-shot text-prompt segmentation utilized Fast Bilateral Solver.
- 1st place in NYCU Digital Image Processing water segmentation challenge.

### Under The Lake: VR Horror Immersive Experience (XR-Showcase Silver Award)

Apr 2023 - June 2023

- Led the design and implementation of "Under the Lake," a VR Horror Immersive Experience.
- Focused on utilizing SteamVR API, Unity, and C# scripting for scene mechanisms.

### Expiration Reminder Service

Oct 2022 - Dec 2022

- Provide an expiration reminder service, which could remind the user of the expiration and detect the usage rate, by connecting an IoT box with an iOS app using ThingSpeak.
- Construct the IoT box by Arduino and 3D printing, and detect the item in the box using ML skills to update the corresponding data on ThingSpeak timely.

## PROGRAMMING SKILLS

**Programming Languages:** C/C++, C#, Python, Pytorch, Onnx, TensorFlow, CUDA, SQL, Swift, HTML, JS.

**Tools:** Git, Docker, Linux, Shell Script, OpenCV, OpenGL, Open3D, Unity, Latex, Flask, Heroku, LangChain.