

# Wei-Tung Lin

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*"Embrace Challenges, Cultivate Enthusiasm, Master New Technologies."*  
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## Education

<b>National Taiwan University of Science and Technology</b> M.S., Computer Science. GPA 4.13 / 4.3. Under the supervision of Prof. Kai-Lung Hua.	Taipei, Taiwan Feb. 2023 - Present
<b>National Taiwan University of Science and Technology</b> B.S., Computer Science. GPA 3.75 / 4.3.	Taipei, Taiwan Sep. 2018 - Jan. 2023

## Publication

Wei-Tung Lin, Yong-Xiang Lin, Jyun-Wei Chen, Kai-Lung Hua. PixMamba: Leveraging State Space Models in a Dual-Level Architecture for Underwater Image Enhancement. arXiv preprint:arXiv:2406.08444, 2024.

## Experience

<b>Prof. Kai-Lung Hua Lab</b> <b>Research Assistant</b>	Taiwan Sep. 2021 – Present
<ul style="list-style-type: none"><li>• Collaboratively designed and enhanced the Multi-modal Perception Module for Autonomous Vehicles, contributing to several NSTC projects with a focus on the successful integration of radar and camera.</li><li>• Advanced the field of dynamic perception by developing models for Event Cameras and Motion Vector Sensors, significantly improving real-time object detection capabilities.</li><li>• Played a pivotal role in the development of Advanced Driver Assistance Systems (ADAS) at MICROMAX, including hands-on integration of multi-sensor data and the creation of Level 2 ADAS features like Adaptive Cruise Control (ACC), Autonomous Emergency Braking (AEB), and lane centering, culminating in the successful deployment in real-world road scenarios.</li></ul>	

<b>Heroic Faith</b> <b>Software Engineer Intern</b>	Taiwan Jul. 2021 – Feb. 2022
<ul style="list-style-type: none"><li>• Engineered an end-to-end ETL (Extract, Transform, Load) pipeline utilizing Apache Airflow to automate the data labeling process, enhancing the efficiency of model training and reducing manual error. This streamlined pipeline significantly improved the data preparation phase, ensuring high-quality inputs for machine learning models.</li><li>• Implemented GitLab CI/CD for seamless automation of build and test workflows, enhancing team productivity and code quality.</li></ul>	

## Leadership & Awards

<b>Student Association of CS department</b> <b>Vice President</b>	NTUST Sep 2019 - Jun. 2020
<ul style="list-style-type: none"><li>• Led and organized events and activities for over 100 students.</li></ul>	
<b>Academic Excellence Award</b>	Feb. 2020 - Jun. 2020
<ul style="list-style-type: none"><li>• Awarded to the top 5% students in the semester.</li></ul>	

## Skills & Interests

**Technical:** PyTorch, Docker, Linux, Transformers, State-space Models, CNNs, Latex  
**Language:** Chinese (Native), English (Fluent, IELTS 6.5)  
**Academic:** Linear Algebra (A+), Discrete Math (A+), Data Structure (A+), Algorithm (A+), Computer Architecture (A+), Operating System (A+)  
**Interests:** Deep Learning, Computer Vision, Badminton