王昡然
Xuan-Ran, Wang

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Skills & Software

- **Wafer chip probing**
- **Image processing**
- **Optical System Design and Alignment**
- **MATLAB**
- **ImageJ(FIJI)**
- **JAVA**
- **Python**

Adviser Professor

詹明哲
mcchan@nycu.edu.tw

Course Record

CNN, Transformer & Generative AI
Applied deep learning models to underwater image enhancement tasks, focusing on deblurring techniques--gaining hands-on experience in pairing data and using adversarial loss for quality refinement.

Computer Graphics 3D(JAVA)
Implemented core 3D rendering concepts including object transformation (rotation, translation, scaling), and matrix-based space transitions (model, world, camera, and projection spaces).

Digital IC Design Practice
Designed a 3×2 multiplier using Verilog to understand the full digital IC design flow—from RTL coding and functional simulation, to circuit-level verification using HSPICE (Prsim & Posim). Final layout was completed using DRC and LVS checks to ensure manufacturability.

Internship

Assistant Test Engineer
KYEC,2020/07 – 2021/06
- Participated in machine training (Advantest 93K, Accretech TSK) and system software operation. Later took on client-facing roles involving communication, scheduling, and reporting.
- Initiated discussions based on Test Spec reviews and collaborated with clients to finalize product Data Sheets — ensuring compliance with test criteria and product stability.
- Took ownership of analyzing wafer test results (DC/Function Test), identifying performance patterns, and aligning them with client expectations.

Education

National Yang Ming Chiao Tung University
Master of Science in Photonics
2022/09 - 2024/08

National Kaohsiung University of Science and Technology
Bachelor of Science in Electrical Engineering
2017/07 - 2021/06

Detail Information

⌨ https://github.com/ngsc85/xuanran.github.io