

# Tsung-Yu Chan

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## Education

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### National Yang Ming Chiao Tung University

Master of Computer Science and Engineering

– GPA: 4.3/4.3

– Thesis: 5G NR PUSCH Procedure Optimization and Parallelization Based on ARM Platform

*Hsinchu, Taiwan*

Feb. 2022 – Feb. 2024

### National Taiwan University of Science and Technology

Bachelor of Electronic and Computer Engineering

– GPA: 4.0/4.3

*Hsinchu, Taiwan*

Sep. 2018 – Jan. 2022

## Experience

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### Synopsys

Sr. R&D Engineer

– Designed and implemented graphical user interfaces (GUI) using Qt framework.

*Taipei, Taiwan*

Feb. 2025 – Present

### EURECOM

Intern

– Migrated OpenAirInterface to the AArch64 platform.

– Developed OpenAirInterface on the AArch64 platform.

– Optimized and parallelized the physical layer of OpenAirInterface.

*Biot, France*

Apr. 2023 – Sep. 2023

### eCloudvalley Digital Technology

Intern

– Developed technical materials for learning AWS and Azure.

– Developed the cloud services playground platform using AWS and Azure.

– Developed an IoT-enabled pool table project.

*New Taipei, Taiwan*

Apr. 2021 – Aug. 2022

## Skill

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**Domain Knowledge** 5G, Web, DevOps, Software Engineering, Unix-like Operating System

**Programming** C, C++, Python

**Other** Docker, Kubernetes, AWS, Azure

## Project

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### Simple OS Kernel on Raspberry Pi 3

– Developed a simple OS in a bare-metal environment.

– Implemented exception and interrupt handling, along with basic system calls.

– Supported virtual memory management using a buddy system for page allocation.

– Added multitasking support with a scheduler and context switching.

*Course Project*

### Video streaming platform

– WebRTC-based live streaming platform.

– Supported the chat room on the platform.

– Supported the login feature for managing the users.

*Team Project*