

Cheng-Yang (Eric) Chou 周呈陽

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Education

National Cheng Kung University, M.S. in Computer and Communication Engineering 09/2023 - 06/2025

- Thesis : "Maximizing Tasks Offloading and Local Computing for the Multi-UAV-Enabled MEC system"
- Advisor : Prof. Wenson Chang, Wireless Communication and Network Lab
- Awards : one scholarship

National Cheng Kung University, B.S. in Systems and Naval Mechatronic Engineering 09/2019 - 06/2023

- Awards : four scholarships and the only undergraduate who graduated with a Graduation Scholarship.

Relevant Courses

- EE : DSP, ASP, Digital Comm., Comm. Network, Wireless Comm.
- CS : DS, Algo, OOP, CO

Internship

USB Firmware Intern @ Realtek MMBU 07/2024 - 08/2024

- **Tools** : C programming, GDB debugger and Git.
- The original firmware only supported reading files in the root directory of USB drives formatted with FAT32.
- Added support for reading files in the root directory or first-level subdirectories for FAT32 and exFAT, utilizing shared switch cases and macros for format handling and directory access.
- Successfully verified the functionality using 8 different USB drives, varying in cluster size, multiple partitions, and macros, confirming that both exFAT and FAT32 operate correctly on the KCPU.

Skills

C programming

GDB/Git

Python

MATLAB

Projects

[Senior Project] Designing and manufacturing of intellectually unmanned ship

- **Tools** : C programming, Python, Raspberry Pi, and Arduino.
- Resolved challenges such as environmental noise, camera instability due to water surface movements, efficient communication between Raspberry Pi and the control system, and signal delays between Raspberry Pi and Arduino.
- Integrated Arduino for precise ship control and coordinated the operation of multiple development boards.

[Personal Project] A tracking and obstacle avoidance vehicle

- **Tools** : C programming and Arduino.
- Designed an Arduino-controlled vehicle to tackle navigation issues. Improved sensor accuracy, motor response, and refined navigation programming through iterative testing for effective course completion.

[Personal Project] Seminar reminder LINE BOT

- **Tools** : Python, Heroku and Git.
- Providing keyword reminders, submission of seminar reflections, and other functions.

Awards

112 學年第二學期大專院校優秀資通訊人才獎學金 (link)	2024
FitTech Graduation Scholarship (link)	2023
TOEIC Gold certificate 880 (L475, R405)	05/2024
Higher Education Sprout Project Scholarship	2021
J.C.WANG Foundation Scholarship	2021, 2022
NTNU Entrepreneurship Competition Excellent Work	2021

Extracurricular Activities

Young Entrepreneurs of the Future Program at Epoch School (Kidnenjoy)	02/2021 - 07/2021
General convener of the orientation camp (迎新宿營總召)	09/2020 - 09/2021

References

Asst. Prof. at NCKU : Dai, Ming-Jyun (戴名駿)	Mail: mjdai@gs.ncku.edu.tw	Tel: 0960100944
Asst. Prof. at NCKU : Chen, Chih-Chiang (陳智強)	Mail: ccchenevan@mail.ncku.edu.tw	Tel: 0934271190