Yen-Wei Lin 林晏葦

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Summary of Qualifications

- Proficient in C programming, with experience in developing efficient and reliable software solutions.
- Experienced in ESP32 microcontroller development, capable of integrating Wi-Fi, BLE, and IMU for networking and motion-sensing applications.
- Skilled in circuit wiring and soldering, with hands-on experience in using power supplies and oscilloscopes for testing and troubleshooting.

Education

National Cheng Kung University – M.S in Electrical Engineering   2024 – 2026

National Taiwan Ocean University – B.S in Electrical Engineering   2020 – 2024
- Microcontroller Interface and Driver Design
- Sensor Integration and Interactive System Implementation

Projects

IoT Capstone - Monitor the working status of home appliances   2022.02 - 2022.06
- Develop ESP32 programs using Arduino IDE, configure GPIO pins to connect with sensors.
- Set up a lightweight Web Server on the ESP32 to handle data requests and responses.
- Utilize the ESP32's Wi-Fi module for wireless data transmission.

Autonomous Car   2022.09 - 2023.01
- Wiring and soldering of Arduino, motor driver module L298N, IR sensors, and power supply
- Tuning PWM signals to adjust motors speed for following black line.

Ensemble Learning for Coral Species Recognition   2022.07 - 2023.06
- Preprocess images by denoising and extracting coral shapes or texture regions.
- Define shape features, analyze color distribution, and extract texture features with GLCM.
- Achieved 82% accuracy by using XGBoost for feature selection and classifier combination.

Publications

Yan-Wei Lin, and Dong-Lin Li. "Ensemble Learning-Based Classification for Acroporidae and Pocilloporidae", IEEE International Conference on Marine Artificial Intelligence and Law, Taipei-Taiwan, September 2023

Activities

Served as president of volunteer group
- Leading a team of 30 members
- Hosted an inter-school singing competition with 100 attendees
- Organized a community-based parent-child storytelling event involving 30 participants