



Shao Huang Hsu

ABOUT ME

As a university student, I am proactive, eager to learn, and possess excellent learning abilities along with innovative thinking, all while striving for excellence. I excel in teamwork, demonstrate strong resilience under stress, and enjoy challenging myself by stepping out of my comfort zone. I continuously take the initiative to acquire new skills.

SKILLS

- C/C++
- Python
- HTML
- CSS
- JavaScript
- MATLAB
- ADB (Android Debug Bridge)
- Unity

EXTRACURRICULAR ACTIVITIES

- Completed a 3km swimming at Sun Moon Lake International Crosslake Swimming Carnival, Sep 2024
- 3.5km SANRIO CHARACTERS marathon, Nov 2023
- PADI Open Water Diver, Aug 2020
- Level C technician for interior wiring work, Sep 2019 – Nov 2019

CONTACT

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<https://dennishsu716.github.io/introduce.github.io/Introduce/web.html>

EDUCATION

2021 - 2024 | Keelung - Taiwan

B.S. ELECTRICAL ENGINEERING

National Taiwan Ocean University (NTOU)

WORK EXPERIENCE

HTC Corporation | 2024 – present

R&D Test Engineer: Intern, New Taipei

Tasks:

- Design a Python program to conduct repeated tests and analyze the resulting data. This will help our team save a significant amount of time and improve work efficiency.
- Testing the new hardware product. Use ADB to capture logs and write test reports
- Collaborated with the manager to ensure the quality of the new hardware product.

RESEARCH EXPERIENCE

LOGO TRACKING | Advisor: *Chih-Wei Lin*

- Using YOLO to train images model for recognition
- Using Unity as the primary development environment imports the trained model
- When the computer's camera recognizes the target image, it will play the video
- Package the program to the cellphone, and support on Android & ios

LOW-PASS FILTER | Advisor: *Chung-Cheng Chang*

- Using a low-pass filter can effectively eliminate aliasing effects in the circuit, thereby enabling the circuit to operate smoothly
- Research on the principles and applications of low-pass filters
- Design and manufacture a low-pass filter based on a specific set of values

PROJECT EXPERIENCE

Website store, Oct 2023 – Dec 2023

- Create a store website using HTML, CSS, and JavaScript that is compatible with both PC and mobile devices
- Using Google Drive as the backend for a website to record items needed by consumers

Exchange Rate Calculator, Feb 2023 – Apr 2023

- Design a currency exchange calculator using Python in conjunction with a real-time exchange rate API

Airplane Shooting Game, May 2024 – Aug 2024

- Designing a Game Using Pygame in Python
- Add background music and various sound effects, and ensure the ability to package it into an APK file

Video Image Detection, Feb 2024 – Apr 2024

- Using MediaPipe with Python to Create Hand Tracking
- Through the computer's camera, hand movements can be detected in real-time, allowing for the distinction of various gestures

Auto fish tank, Sep 2022 – Jan 2023

- Using Arduino to create a fully automated Aquarium
- Through the indicator lights, the water temperature can be monitored in real-time, allowing for automatic adjustments to increase or decrease the temperature based on the readings