

Shao Huang (Dennis)Hsu

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EDUCATION

Master of Science in Electrical and Computer Engineering (Machine Learning and Data Science)

University of Southern California (USC), LA, CA

May 2025 – Dec 2027

Bachelor of Science in Electrical Engineering

National Taiwan Ocean University (NTOU), Keelung, Taiwan

Sep 2021 – Jan 2024

SKILLS

- Programming Languages: C/C++, Python, Java, MATLAB, ADB (Android Debug Bridge), Unity (C#)
 - Web Development: HTML/CSS, JavaScript
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WORK EXPERIENCE

R&D Test Engineer: Intern

HTC Corporation | New Taipei, Taiwan

Aug 2024 – April 2025

- Built an automated testing framework using Python to conduct repeated tests and analyze the resulting data. This approach significantly improved team efficiency by reducing testing time by 30% and increasing accuracy by 25%.
 - Collaborated with the manager on various projects, contributing to the successful completion of five projects ahead of schedule and receiving positive feedback from the team lead.
 - Utilized ADB to capture logs and analyze data from new products, identifying and documenting ten critical issues that improved product reliability by 20%.
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RESEARCH EXPERIENCE

Web Development for Personal Website

Oct 2024 – Dec 2024

HTML/CSS/JavaScript

- Successfully presented skills, experience, education, and projects to visitors through interactive elements and well-structured layouts, creating an impactful online portfolio to demonstrate technical proficiency.
- Transformed technical aptitude into a visually engaging portfolio that effectively communicates qualifications and invites potential employers to engage further.

Logo Tracking

Mar 2023 – Sep 2023

- Collected and labeled a dataset of 300 custom photos and utilized the YOLO (You Only Look Once) v5 model for training in object recognition.
- Developed an application system paired with the Unity game engine that can instantly identify targets and trigger video playback. It also supports packaging the application for mobile devices.

Low-Pass Filter

Sep 2022 – Jan 2023

- Proposed and designed a low-pass filter to eliminate aliasing effects in circuits, ensuring stable circuit operation. (GitHub project: <https://github.com/DennisHsu716/project2.github.io>)
 - Successfully manufactured and tested the low-pass filter, confirming its effectiveness in eliminating aliasing effects and enabling smooth circuit operation.
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CERTIFICATIONS

Datacom Software Development Job Simulation - HTML/CSS/JavaScript/Database

Jan 2025

Skyscanner Front-End Software Engineering Job Simulation - HTML/CSS/JS/Data Visualization

Jan 2025

Wells Fargo Software Engineering Job Simulation - Java/Java Persistence API/Java Spring/Git

Jan 2025
