CHIH-HSIANG CHEN

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https://chenchihhsiang.github.io/

EDUCATION

- University of California, Davis (2020 - 2021)
  — Master of Science in Computer Science, GPA: 3.83
- National Sun Yat-Sen University (2017 - 2019)
  — Master of Science in Electrical Engineering, GPA: 3.89
- Chung Yuan Christian University (2013 - 2017)
  — Bachelor of Science in Electrical Engineering, GPA: 3.64

WORK EXPERIENCE

Firmware Engineer (Validation and Development), Solidigm — 2022 Feb. - 2023 Aug.

— Design and validate product firmware in the Firmware Engineering department
— 6% performance improvement
— Successfully resolved bugs between WAF and firmware calculation
— Led discussions on implementing a new and important feature to SSD products
— Mentored new employees from other teams, specifically the Validation team
— Designed test plans for firmware validation using YAML
— Being responsible for verification of memory subsystem design and architecture with advanced verification methodologies
— Having experience in entire product lift cycle

Co-Op / Intern Engineer (CSIM), Advanced Micro Devices — 2021 Sep. - 2021 Dec.

— Contributed to the Graphic Pipeline
— Optimized programs to reduce memory usage by 40%
— Familiar with Doxygen, Linux Environment, and Google Test Framework Setup

SKILLS AND LANGUAGE

- Programming Language
  — Dev: C, C#, python, Linux
  — Val: yaml, python, scripts
- Electrical Engineering
  — Communication System, Embedded System, Circuit Design
- Language
  — Chinese (Native); English (Fluent)

HONORS AND AWARDS

• Master's Thesis (2019)

— Bettering of Supervisory Control System and Communication for Direct Grid-Connected Excited Synchronous Wind Power Generators with Servo Motor Control.
— Designed and implemented a **remote control system**, **UI**, and **database** for a turbine generation system
— Configured communication environments using **SCI**, **MODBUS**, and **RS-485**
— Improved system performance and efficiency by reducing transmission time by **72%**
— Collaborated with team members to troubleshoot and resolve technical issues
— **Skills**: C, C#, MySQL, Circuit Design, SCI, MODBUS, SoC

PROJECTS

• Course Project (2020 - 2021)

— Cross-Asset Decentralized Market System (Algorand Blockchain).
— API Designing for RISC-V Based Operating System. (C, assembly language)
— Phishing Website Detection on Chrome Extension by Machine Learning (machine learning, data mining)