

Po Wei Hsu (Sander)

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EDUCATION

National Pingtung University

B.S in Department of Information Management

📅 August 2019 - July 2023 📍 Pingtung, Taiwan

WORK EXPERIENCES

Co - Founder

電到系列科技有限公司

📅 April 2022 - September 2023 📍 Kaohsiung, Taiwan

Founding this company has taught me a lot, and I have played many roles. These valuable experiences have allowed me to have more perspectives, and the experiences I have learned from them have also allowed me to collaborate with people in different directions.

- **Freelance work:**
Freelance work is our main business. We have worked on ERP, POS, website, and app systems.
- **Maintenance:**
Our secondary business is providing on-premises server and data center maintenance for companies with less than 100 employees.
- **E-commerce:**
The e-commerce company is called "電到創商". It specializes in selling computer parts and also provides assembly and repair services.

Assistant

National Pingtung University

📅 April 2020 - now 📍 Pingtung, Taiwan

- **Research Assistant (April 2023 - now)**
Research on TSN (Time-Sensitive Networking) Industrial IoT Multicast. My work is to develop simulation experiment programs for research plans and visualize data.
- **Teaching Assistant (July 2021 - June 2023)**
Assisting various professors with their courses, providing post-class tutoring to fellow students, and sharing experiences gained from competitions.
- **Administrative Assistant (August 2020 - July 2021)**
Assisting Office Automation, Accelerating Office File Management, Production, and Verification Using VBA and Python.

LANGUAGES

- Chinese - Native Speaker
- English - IELTS 7.0

CERTIFICATES

- CCNA (June 2023)
- IC3 Master (December 2022)
- MOS Master (February 2019)

SKILLS

- Golang / Python / C#
- PostgreSQL / MySQL / Redis / MongoDB
- Git / Docker / Kubernetes
- Hyper-V / VMware
- Google Cloud / AWS / Azure
- AI tools (Copilot / Gemini / ...)

PROJECT EXPERIENCES

Online Multicast for Mixed Critical Applications

🔗 helgesander02/OMRSS

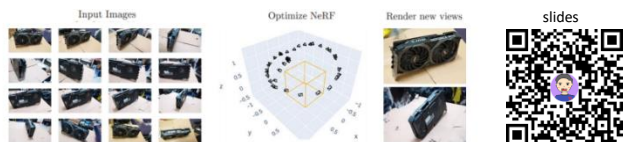
A TSN-based network simulation system, The system is designed using Golang, with TDD concepts in mind.

- **Contributions:**
I contributed about 10,000 lines of code to this project. I used object-oriented programming (OOP) and Test-Driven Development (TDD) to improve the extensibility, readability, and reduce the occurrence of dirty code. I also used more efficient dynamic programming to accelerate the algorithm. Finally, I implemented automation through the use of shell and yaml to help experiments find the best parameters for the algorithm.

Product Technology Demo of 3D Volume Rendering Applied to E-Commerce Platform

A system that uses NeRF and Instant-ngp to train a model that can generate 3D objects, and then displays the results on my e-commerce website. The system is primarily designed in Python and CUDA.

- **Contributions:**
I contributed about 1000 lines of code to this project using PyTorch and CUDA. I primarily used open source projects as a foundation for modification. Through studying open source and researching other papers, I helped the system to better display 3D structures. Finally, I wrote this system as an API and connected it to a Django website.



Symbolic project that represent my potentials

- **TKFruitMG** 🔗 helgesander02/TKFruitMG
An ERP system that uses customtkinter as the GUI base, with a postgresQL database and reportlab, win32print, and pymupdf-fit design.
- **den_no_suke_LineBot** 🔗 helgesander02/den_no_suke_LineBot
A LineBot implementation on Render Cloud using crawling technology, which can send price comparison messages and the latest tech news, and also connects to the OpenAI ChatGPT API.
- **Crawler2ITDV** 🔗 helgesander02/Crawler2ITDV
The data of the SITCA was crawled out using a crawler and analyzed using the ITDV tool. The ITDV tool mainly observes data such as time, quantity, and funds, and visualizes them in charts.