Po-Chi, Hsu

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EDUCATION

- **National Yang Ming Chiao Tung University** — Hsinchu, TW
  Master of Science in Computer Science; GPA: 4.18 / 4.3 — *Sep 2022 – Jun 2025*

- **National Yunlin University of Science and Technology** — Yunlin, TW
  Bachelor of Science in Computer Science; GPA: 3.65 — *Sep 2017 – Jun 2022*

EXPERIENCE

- **Mediatek** — ChuPei, TW
  Software Engineer Intern (Windows Wi-Fi Driver) — *July 2023 – Aug 2023*
  - **Driver Development - Efuse**
    Implemented driver operations to read and write efuse, configuring and managing internal circuit parameters. Patched event handling mechanisms to ensure process stability and accuracy.
  - **Driver Development - Sniffer Mode**
    Extracted information from RX descriptors. Incorporated Radiotap and PCAP headers for advanced packet analysis. Established robust packet receiving and transmission workflows in sniffer mode to aid in network monitoring and debugging.

- **National Yang Ming Chiao Tung University** — Hsinchu, TW
  Teaching Assistant — *Sep 2022 – Jun 2024*
  - **Embedded Systems Capstone**
  - **IoT Devices and Platforms**
  - **Discrete Mathematics**

THESIS

- **Feature Alignment and Compositional Token for Human Pose Estimation**
  Video-based 2D human pose estimation struggles with motion blur, occlusions, and truncated body parts. While heatmap-based methods use temporal cues, they often miss the joint dependencies, causing unrealistic poses. We resolves this by combining spatiotemporal alignment with token representations to robustly capture motion and joint relations.

PROJECTS

- **Ray Tracing Algorithm in CUDA**

SKILLS

- **Languages**
  Mandarin, English, Norwegian

- **Courses**
  Physical Design Automation, Parallel Programming, Software Testing, Cloud Native Development, Network Programming, Edge AI

- **Keywords**
  C, C++, Python, CUDA, PyTorch, GDB, Wireshark, Git, WinDbg, GitHub Actions, Valgrind, LLVM, Linux, Unix, Socket, Shell, Makefile, Boost.Asio, OpenMP, Open MPI, OpenCL, Pthread, gprof, Selenium, Flask, RESTful, Jest, Docker, Docker Swarm, MongoDB