Leo Wu, Product Engineer

+886-966-106-352, wutsungtse@hotmail.com.tw

PROFESSIONAL SUMMARY

DRAM Product Engineer experienced in DDR5/LPDDR5 validation, characterization, silicon debug, and timing analysis. At Micron, I completed two validation projects, optimized Python/C++ test programs and flows, and built a Python tool that reduce manual SHMOO analysis from 8 hours to 1 hour.

I'm motivated by solving tough silicon issues and improving validation efficiency, with skills in Python, C++, Linux, ATE, GTKWave, and troubleshooting.

EMPLOYMENT HISTORY

Jun 2025 — Present

DRAM Product Engineer, Micron — Taichung City

- Completed two DDR5/LPDDR5 validation projects involving characterization, silicon debug, timing analysis, and debugged test program using GTKWave waveform tracing and analysis.
- Developed and optimized Python/C++ test programs and test flows to reduce test time while maintaining sufficient test coverage.
- Worked in Linux-based environments and operated Advantest T5503/T5801 and Micron in-house tester platforms to validate memory devices across different PVT conditions.
- Developed a Python tool with Claude Code to automatically detect failure patterns in SHMOO graphs, reducing manual analysis time from 8 hours to 1 hour.

Aug 2022 — Jul 2024

EUV Upgrade Engineer, ASML — Tainan City

- Executed EUV source and drive laser upgrades for NXE:3400/NXE:3600 lithography systems in a high-pressure customer fab environment.
- Completed five CP3 upgrade projects as part of a cross-functional team, covering source module hardware, plasma qualification, and post-upgrade recovery.
- Troubleshot hardware and system integration issues to reduce downtime and maintain upgrade schedules.

EDUCATION

Sep 2015 — Jul 2019

Electronic and Electrical Engineering, UCL — London, England

- Graduated with Second-Class Honours, Upper Division (2:1)
- Final-Year Project: User-Assisted In-Network Caching in Information-Centric Networking (ICN)

Sep 2011 — Jul 2013

A-Level, Loretto School — Musselburgh, Scotland

- Mathematics (A*), Further Mathematics (A*), Physics (A), Chemistry (A)

HOBBIES

Reading, weight training, web development, YouTube content creation, Discord bot development, and AI-assisted coding.