

Po-Chun Wu

Taipei, Taiwan

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Bachelor's Degree • National Taiwan University (NTU)

August 2022 - (January 2026) | Taipei, Taiwan

- Major: Electrical Engineering (NTUEE)
 - Grade Point Average: 4.16/4.3
 - Credit Program: Creativity and Entrepreneurship Program, NTU, September 2024–June 2025
 - Relevant Coursework: Soc Verification, Algorithms, Computer Architecture, Electronic Circuit Design, and Courses on Entrepreneurship
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Skills

- Specialties: Formal verification, system modeling, digital design, software full-stack development
 - Technical: Python, JavaScript, C++, Verilog, MATLAB
 - Soft Skills: Maker innovation, startup leadership
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Research Experience

- Using Formal Verification to Solve Graph Problems
(Advisor: Prof. Chung-Yang Ric Huang, NTU), April 2025 — June 2025
 - Applied Bounded-Model Checking and other formal methods to solve an NP-Hard variation of the Target-Set Selection problem.
- SAR ADC and PLL design
(Advisor: Prof. Tai-Cheng Lee, NTU), August 2024 — December 2024
 - Modeled and analyzed SAR ADC architectures in MATLAB, focusing on DNL, INL, and ENOB improvements.
 - Simulated Phase-Locked Loops (PLLs), exploring effects of bandwidth, gain, and phase detector architectures on system behavior.

- Separation and Transfer of Monolayer Molybdenum Disulfide
(National Synchrotron Radiation Research Center), December 2020 — May 2021
 - Investigated the effects of UV light, heating, and ultrasonic treatment on the yield of monolayer MoS₂.
 - Developed a novel process that shortened the preparation time of monolayer MoS₂ from two weeks to one hour.
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Work Experience

- Product developer, SLEKMED, August 2023 — February 2025
 - Collaborated with medical students to develop an online medical diagnosis & training platform.
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Awards

- First Place, Silicon Motion Corporate Award, 2025 MakeNTU Competition, May 2025
 - First Place, 2024 CTCI AI Competition, December 2024
 - Best Maker Award, 2024 MakeNTU Competition, May 2024
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Side Projects

- NTU Pair, a matchmaking website with over 1000 users, February 2023
 - Virtual Makerspace, an online replica of the NTUEE Makerspace, August 2023
 - Led a 25-member development team and mentored team members in web programming
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Extracurricular Activities and Volunteer Work

- Founder and President, NTU Learning Optimization Club, August 2023 — June 2025
 - Conducted research and experiments on active recall and other learning methods
 - Delivered 5 speeches in high schools and student associations across Taiwan on how to learn effectively
- Lecturer, Academic Department, NTUEE Student Association, September 2023 — June 2024
 - Led a core team to organize 25 lectures and speeches in the Student Association
 - Taught maker skills in the NTUEE Camp and on the Open Courseware online
 - Manager of the NTUEE Makerspace