Zheng-Yan Wu

[Github](#) [Website](#) [Linkedin](#) [Email](#)

EDUCATION

National Taiwan University (NTU) **Taipei, Taiwan**

M.S. in Mechanical Engineering (Program of System Control) *Sep 2021 - June 2022*

- GPA:4.12/4.3
- Researcher at the NTU Robotics Lab focusing on SLAM, Computer Vision and LLM

National Taiwan Normal University (NTNU) **Taipei, Taiwan**

B.S. in Eletrical Engineering (Double Major) *Sep 2018 - June 2021*

National Taiwan Normal University (NTNU) **Taipei, Taiwan**

B.S. in Mechatronic Engineering (Main Major) *Sep 2017 - June 2021*

- GPA:4.10/4.3
- Graduated with College Honors and received two Presidential Awards

EXPERIENCE

Summer Intern at SEYI **Taoyuan, Taiwan**

Mechanical Engineer *July 2019 - August 2019*

- Developed a multifunctional measurement program using LabVIEW, enabling signal acquisition of vibration acceleration, displacement, temperature, and pressure, along with features for data visualization, database management, and spectral analysis.

Teaching Assistant at NTU ME Automatic Control **Taipei, Taiwan**

Teaching Assistant *September 2022 - December 2022*

- Guiding students to understand feedback principles, control systems design, and system stability.

Teaching Assistant at NTNU ME The Principles and Application of Sensors **Taipei, Taiwan**

Teaching Assistant *September 2020 - January 2021*

- Guiding students to understand the principles and design of various sensors, and using Pspice to design a sensor circuit and implement it.

Teaching Assistant at NTNU ME Labs of Digital Logic **Taipei, Taiwan**

Teaching Assistant *February 2020 - June 2020*

- Guiding students to cultivate the ability to write Verilog HDL and utilize Quartus for synthesizing circuits and programming them onto the DE0 Nano Cyclone platform.

Teaching Assistant at NTNU ME Computer Programming **Taipei, Taiwan**

Teaching Assistant *September 2019 - January 2020*

- Guiding students to cultivate foundational programming concepts and proficiency in C/C++ language coding.

PROJECTS

Microsoft - Light-Weight Facial Landmark Prediction Challenge

- High-accuracy prediction of 68 2D facial landmarks
- Achieved with high efficiency and minimal computational costs

Point Cloud Semantic Completion

- Restoring broken and incomplete 3D point cloud objects
- Enhancing quality, integrity, and detail precision using semantic part information

Play Table Hockey with a 5-DoF Mechanical Arm

- Tracking the dynamic hockey ball using the Realsense d435i RGB-D camera
- Employing inverse kinematics with Kalman Filter-predicted ball coordinates to guide the robot arm's movement within its reach.

SKILLS

Technical Skills

- Languages: Python, C, C++, C#, Matlab
- Technologies: Git, Pytorch, Docker, QT

Languages

- Native: Mandarin, Taiwanese
- Proficient: English
- Basic: Japanese