YU-LUN CHOU

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OBJECTIVE

As a fresh graduated student having expertise in Mechanical Design and Control Engineering, aspiring to pursue a Master's degree in Department of Mechanical Engineering for Spring 2024 at Tohoku University in Japan.

EDUCATION

National Taiwan University (NTU) **Sept. 2018-Jan. 2023,** Taipei, Taiwan

- BS in Mechanical Engineering, GPA: 4.03/4.3 (last-60-credits)
- Exchange Student Program at Aoyama Gakuin University in Japan (duration: Sept. 2022-Jan. 2023)
- Related Coursework: Automatic Control Theory, Mechanism (Kinematics), Dynamics, Computer Programming, Practice of Mechanical Engineering, Machine Design Theory, Data Structure (In Japan)

HONORS & AWARDS

First Robotics Competition (FRC) Sacramento Reginal Finalist (as team's youth mentor) **Mar. '22**

Taiwan TDK Robocon UAV group Championship (Sponsored by TDK Corporation) **Fall '21**

Presidential Award (top 5% of the class in the semester) **Fall '20**

RESEARCH & WORK EXPERIENCE

Researcher in Autonomous & Soft Robotics Laboratory - ME Dept. at NTU **Mar. 2023 - Present**

Advisor: Prof. Chung-Hsien Kuo (NTU)

- Continuing the research in SLAM using TurtleBot to achieve localization, navigation, and exploration.

Intern in Intelligent Robot and Automation Lab - EE Dept. at NTU **Mar. 2022 - Aug. 2022**

Advisor: Prof. Li-Chen Fu (NTU)

- Researched on mobile robot using mapping algorithm Hector SLAM to extract internal map.
- Acquainted with Robot Operating System, Linux, and relevant algorithm for AMR from scratch.

Youth mentor of team C.K. Robotics at Chien Kuo High School **Feb. 2022 - Aug. 2022**

- Guided 30+ students to fabricate and optimize the FRC Robot that performed assigned missions.

2021 Taiwan TDK Robocon (TDK Cup 25th, UAV group) **Jul. 2021 - Dec. 2021**

- Designed the structure and layout of drones and communicated with manufacturers.
- Reconstructed and arrange the practice field to manipulate drones in school.

Practice of Mechanical Engineering project: Propeller-Powered Vehicles **Spring '21**

- Designed the vehicle's structure and steering mechanism.
- Tuned PID controllers to make sure Robot arrive goal successfully.

SKILLS

Hardware/Development Environment/Language: Arduino, Raspberry, ROS, Linux, Python, C++

Mechanical: SolidWorks, Autodesk Inventor, AutoCAD; CNC Operation, 3D printing, Laser cutting