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| **YU-LUN CHOU** | | | |
| Email: b07502075@ntu.edu.tw | | Phone: +886-9-70819587 | |
| **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)  Taiwan TDK Robocon UAV group Championship (Sponsored by TDK Corporation)  Presidential Award (top 5% of the class in the semester) | | | **Mar. ‘22**  **Fall ’21**  **Fall ’20** |
| **RESEARCH & WORK EXPERIENCE** | | | |
| **Researcher in Autonomous & Soft Robotics Laboratory - ME Dept. at NTU**  Advisor: Prof. Chung-Hsien Kuo (NTU) | | **Mar. 2023 - Present** | |
| * Continuing the research in SLAM using TurtleBot to achieve localization, navigation, and exploration. | | | |
| **Intern in Intelligent Robot and Automation Lab - EE Dept. at NTU**  Advisor: Prof. Li-Chen Fu (NTU) | | **Mar. 2022 - Aug. 2022** | |
| * 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 | | | |