

Chao-Chun 'Leo' Hsu

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Education

B.S. in Electrical and Computer Engineering,
National Chiao Tung University (NCTU), Taiwan.

09, 2016 ~ present

Research Interests

Marine Robotics, Robotics, Mechanical design, Automatic Control Systems

Projects

- **DARPA Subterranean (SubT) Challenge**

Subterranean Challenge aims to develop innovative technologies that would augment operations underground to execute search and rescue mission. The system will send important information back. My job is to design the hardware system of the UGV (Unmanned Ground Vehicle), Husky.

- **Duckiepond and Duckieboat**

From our experience in RobotX Challenge, we build an educational platform for people who want to learn marine robotics or machine learning, and also can do aquatic human rescue, water environment maintenance...etc. missions. My job is Duckieboat design and assemble. The paper had selected by IROS and presented at Macao in 2019.

- **Maritime RobotX Challenge**

I was one of the members of Team NCTU, represented our University to participate the biggest maritime robotics competition in the world. We got fifth place of 2018 RobotX Challenge in the end. My job is waterproof hardware integration and assemble, and software system design of the "*scan the code*" mission.

Technical Skills

- **Programming:** C/C++, JAVA, Python, MATLAB.
- **Middleware and Libraries:** Robotic Operating System (ROS), OpenCV.
- **Embedded Devices:** Raspberry pi, NVIDIA Jetson Nano, NVIDIA Jetson TX2.
- **Hardware:** 3D model design and manufacture, Solidworks.
- **Others:** Gazebo.

Working Experience

Working at [eTreego Co.](http://eTreego.com) since 2016. Responsible for hardware design and assembly of electric charging stations, software design of Tire Pressure Monitoring System (TPMS).