

Yu-Chieh ‘Tony’ Hsiao

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Research Interests and Recent Projects

My research focuses on mobile robotics, especially on 3D perception and image processing. I am interested in developing automatic guide vehicle in intelligence factory and 3D perception of robotic application.

Duckietown: A Platform for Autonomy Research and Education

- Teaching Assistant in NCTU-Duckietown
 - Creative Software Project class
- Participating International Duckietown about deep learning infrastructure.
 - NCS – Neural Computing Stick on Pi3
- Gazebo simulator
 - Porting Duckietown lane following to virtual lane following in Gazebo

Education and Professional Experiences:

Graduate Student , Institute of Electrical and Control Engineering National Chiao Tung University (NCTU), Taiwan	09/2017 – present
Undergraduate Student , Department of Electrical And Computer Engineering, NCTU	09/2013 – 06/2017

Selected Courses:

Object-oriented programming (A), Dynamic System Simulation and Implementation (A)
Pattern recognition (A), Deep Learning (B+), Control System Experiment (A-)

Technical Skills:

Programming language: Python, C/C++, C#, VB, Matlab

Middleware and Libraries: Robotic Operating System (ROS) , Arduino

Sensors and Hardware: Raspberry pi 3, NVIDIA Jetson TX2, Intel Realsense series, Neural

Computing Stick

Others: Gazebo, Sketch Up, Android Studio