Che-Ming 'Jack' Lin

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EDUCATION

National Chiao Tung University (NCTU), Hsinchu, Taiwan
M.S in Institute of Electrical and Control Engineering Expected Sep 2018

- **Selected coursework:** Robotics (A^+), Linear System (A^+), Mobile Robots (A), Robotic Vision (A^+), Pattern Recognition (A^+), Image Processing (A^-), Biomedical Design and Implementation (A^+), Sensing and Intelligent System (A^+)

Yuan Ze University (YZU), Taoyuan, Taiwan
B.S. in Department of Electrical Engineering 09/2012-06/2016

- **Selected coursework:** Multimedia and Image Recognition (A), Automatic Control (A) Fuzzy Control System (A^+), Human-Robotic Interaction (A^+)

TECHNICAL SKILLS

- **Programming Language:** C++ / C# / Python / Matlab
- **System and Framework:** Ubuntu / ROS (Robot Operation System) / Gazebo
- **Development Platform:** Embedded Platform (Raspberry Pi) / UR5 / FOVE VR device
- **Computer Aided Design:** Unity / SolidWorks / Sketch up

SELECTED PROJECTS

Duckietown & Duckietown Simulation

➨*ROS, C++, Python, OpenCV, Ubuntu, Raspberry Pi, Gazebo*

Duckietown is an open, inexpensive and flexible platform for autonomy education and research. I've learned lots of basic skills about ROS and explore research to Gazebo simulation by the connection with ROS. Duckietown is also a teaching platform and I've been teaching assistant of the courses in Fall 2016, Spring 2017, and Summer 2017.

Combination of Factory Automation and Virtual Reality

➨*ROS, Gazebo,Ubuntu, C++, C#, Unity, FOVE VR device, UR5*

This is the main part of my research now. I expect to build up the system which is combined with Factory Automation and Virtual Reality (FOVE, Unity) in both simulation world (Gazebo) and real world. The main goal is to promote the productivity of Robot Arm Automation by Human-Robot Interaction within the Virtual Reality.

EXPERIENCES

Reasearch Assistant --- IEEE International Robotic Computing Conference ***Taichung, Taiwan***

- Preparation of the Tutorial of self-driving car, Duckietown. 2017
- Self-driving car and multifunctional mobile robot Live Demo.

Instructor --- Duckietown Summer School (summer 2017)

- An International promotion of teaching platform to o host individuals from Korea, Indonesia, and Taiwan.
- Aim at training potential instructors and teaching assistants in future Duckietown courses.
- Preparation of teaching materials and Lecturer training.

Teaching Assistant ---Sensing and Intelligent system (fall 2017), Robotic Vision (spring 2017), Creative Software Project (fall 2016)

- As an assistant to lead students easily learning class knowledge.
- Preparation of in-class tutorials and lab as the training for students.
- Integrated and Implemented ROS with another hardware and software.

TAIWAY SPORTS, LTD --- Corporate visit ***Dongguan, China***

- Realization of our own robots and automation technology in real factory. 01/2017
- Learn how to solve the real world problem in research.