Chang-Yi Kuo

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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^+), Robotic Vision (A), Mobile Robots (A), Image Processing (A), Pattern Recognition (A^+), Embedded Operating Systems (A^-), Sensing and Intelligent system (A^+)

National Central University (NCU), Taoyuan, Taiwan
B.S. in Opto-mechatronics, department of Mechanical Engineering   09/2012-06/2016
- **Selected coursework:** Micro-Controller, Robotics, Mechatronics (A), Electromagnetic and Electromechanical Machines (A+), Sensing Principles (A+), Automatic Optical Inspection (A+)

TECHNICAL SKILLS

- **Programming Language:** C / C++ / Python / Matlab / LabView
- **System and Framework:** Linux / ROS (Robot Operation System) / Gazebo Simulation
- **Development Platform:** Ubuntu / Embedded Platform (Raspberry Pi) / Arudino/ TX2
- **Computer Aided Design:** SolidWorks / AutoCAD / Sketch up

SELECTED PROJECTS

Duckietown • *ROS, C++, Python, OpenCV, Ubuntu, Raspberry Pi*
Duckietown is an open, inexpensive and flexible platform for autonomy education and research. This is the fundamental material for me to learn and master ROS and explore research directions. I served as main instructor and teaching assistant in 3 courses of Duckietown platform (Fall 2016, Spring 2017, and Summer 2017).

Educational platform of Mobile manipulator • *ROS, PCL, Python, Ubuntu, TX2, Raspberry Pi*
This is my main research direction now. In this project, I am going to develop an educational platform for every people who are interested in robots and reduce the threshold of accessing expensive robot. Through this platform, I hope that I could contribute my efforts and make the robotic community more powerful.

EXPERIENCES

MediaTek Inc. --- robotics engineer (part time)   ***Hsinchu, Taiwan***
- Develop robotics projects of navigation and deep learning.   09/2017-Present
- Collaborated with Software Engineer and achieved the project.
- Explored enthusiasm of research and developed professional ability.

Instructor --- Duckietown Summer School (summer 2017)
- Aim at training potential instructors and teaching assistants in future Duckietown courses.
- An International activity to host individuals from Korea, Indonesia, and Taiwan.
- Design lectures and lead hands-on workshops for students.

Teaching Assistant ---Sensing and Intelligent system (fall 2017), Robotic Vision (spring 2017), Creative Software Project (fall 2016)
- As the mentor and lead term projects for students.
- Prepared in-class tutorials as skill training.
- Integrated and Implemented ROS with another hardware and software.

TAIWAY SPORTS, LTD --- Corporate visit   ***Dongguan, China***
- Promoted robotics education.   01/2017
- Brought our robots and automation technology in real factory.
- Collected the problems in real environment and solved them as a research.