

PERSONAL INFORMATION

First Name, Surname: Yu-Wen, Chen
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GitHub: <https://github.com/airuchen/>
Portfolio: <https://airuchen.github.io/>



EXPERIENCE

Advanced Robotic Platform Group, ADLINK

Sep. 2019 – Feb. 2020

ROS R&D Intern

- ROS, ROS2 robot design, prototype, implementation, and documentation
 - Developed, from initial, a mobile robot named NeuronBotII that supports ROS and ROS2.
- Mobile robot inspection with ROS2 behavior tree
 - Ported state machines on ROS to ROS2.
- ROS multiple-robots inspection
 - Coordinated 3 mobile robots inspecting in the same field.
 - Implemented the costmap layer that collects locations of robots.

Compulsory Military Service

Sep. 2018 – JAN. 2019

Mobile Autonomous Systems and Cognitive Robotics Institute, FH Aachen

Feb. 2018 – Jun. 2018

Undergraduate researcher

- 6-axis UR5 eye-in-hand Visual Servo Control via ViSP Library and ROS
 - Controlled UR5 with MoveIt, and Simulated it in Gazebo.
 - Adapted model-based tracking in Visual Servo Platform(ViSP) to track objects with RGB camera.
- Multiple UAVs cooperation task in ROS simulation
 - Coordinated 4 quadrotors to pick up objects in Gazebo simulation world.
 - Processed images with OpenCV and communicated through ROS

Medical Robotics Laboratory, NTUST

Feb. 2016 – Jun. 2018

Undergraduate researcher

- Teen-size Serial Humanoid robot
 - Developed a 100-cm-tall serial humanoid robot that can perform sport behaviors.
 - Designed circuits.
 - Implemented competition strategies and finetuned locomotion,
- 5-axis Industrial Parallel Robot Arm
 - Design 3-Kg payload parallel robot arm
 - Simulated kinematics with MATLAB and implemented on Arduino.
 - Programmed user interface with C++.
- 3-axis Hand-writing Robot Arm
 - Developed 3-axis hand-writing robot with APP interface.
 - Simulated kinematics and speed control with MATLAB

EDUCATION

RWTH-Aachen

Aachen, Germany

M.Sc. in EE, IT, CE (Systems and Automation)

Mar. 2020 – now

FH Aachen University of Applied Sciences

Aachen, Germany

Exchange Student

Feb. 2018 – Jun. 2018

- *Selected Coursework:* Robot Programming with ROS, Advanced Robotics and Autonomous Mobile Systems, Advanced Project Management

National Taiwan University Of Science and Technology (NTUST)

Taipei, Taiwan

B.Sc. in Electrical Engineering

Sept. 2014 – Jun. 2018

- GPA: 3.76/4.0, ranking: 15/95
- Graduation Project: Autonomous Patrol Robot Applying in Automatic Factory (3rd place of Project Popularity Award)

EXTRACURRICULAR ACTIVITIES

Skateboard Club, NTUST

Jul. 2015 – Jun. 2016

Director

Dormitory Committee, NTUST

Jul. 2014 – Jul. 2016

Student Congress, NTUST

Jul. 2014 – Jun. 2015

Leader of International Section

HONORS

2nd Place, RoboCup TeenSize Humanoid League Soccer Game in Japan

Jul. 2017

(Humanoid soccer robot in fully automation)

1st Place, FIRA RoboWorld HuroCup Adult Robots

Aug. 2017

(Athletic robot doing marathon, archery, obstacle run, weightlifting, etc.)

1st Place, Intelligent Humanoid Robotics HuroCup Adult Robots Taiwan

May. 2017

(Athletic robot doing marathon, archery, obstacle run, weightlifting, etc.)

Honorable mention, Robot Competition – Domestic Industrial Robot

Sept. 2016

(Industrial 5-axis parallel robot arm design and implementation)

3 times, NTUST Top 10% Academic Excellent Award

2015 – 2017

Approx. 4,300 Euro Scholarship, Lin-Xiong Zheng Academic scholarship

Dec. 2017

(Top 50 Taiwanese students with excellent academics and competition achievement)

SKILLS

Robotics: ROS, ROS2

Programming language: C, Python, HTML, Kernel script

Operating System: Linux

Version Control: Git

Simulation and Analysis: MATLAB

Embedded System: Arduino, Raspberry pi

Language: Mandarin (Native), English (Fluent)