

Wei-Yu Chen

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EDUCATION

UNIVERSITY of MARYLAND at COLLEGE PARK

Taipei, Taiwan

Master of Science in Engineering (September 2021-present)

Major: Electrical and Computer Engineering (ECE)

NATIONAL TAIWAN UNIVERSITY

Taipei, Taiwan

Bachelor of Science in Engineering (September 2018-July 2021)

Major: Engineering Science and Ocean Engineering (ESOE)

EXPERIENCE

AIRABBI Inc.

Taipei, Taiwan

Part-time CodingBar Teaching Assistant and Lecturer (May 2020-July 2020)

- Taught students ranging from 5th grade to high school python
- Set course syllabus and wrote instructional plan for BBC Microbit course

SELECTED PROJECTS

Project for course Object-Oriented Programming (Feb 2020-June 2020)

- This team project features a basic stock information interface and trading simulation with usable UI and real-time information of both indexes and individual stock
- My main contribution in the project is the online crawling of all real-time information

Project for course Robotics (Sep 2020-Jan 2021)

- This code was part of a project that used a TM5-900 robotic arm to accomplish various tasks. The overall goal of the project was to get the arm to prepare food.
- My main contribution in the project is on calculating the mechanics required for the knife and prongs along with helping with various part of the code

Project for course Digital Image Analysis (Feb 2021-Jun 2021)

- This individual project compares three different methods used for static background reconstruction in dynamic environments

Research Project (Aug 2020~)

- Conducting research with the Computational Knowledge Lab(CK Lab) and Advance Fluid and Power Control Lab(AFPCL) at National Taiwan University department of Engineering Science and Ocean Engineering
- Topic is about autonomous control in an indoor environment using stereo vision mounted on a land-based robot, more information would be given on my research plan

ACTIVITIES

Model United Nations, NTU (September 2018-June 2019)

NTU ESOE baseball team (September 2018-June 2021)

NTU ESOE camp teaching assistant in C and C++ on Arduino(July 2019)

SKILLS

Language: Proficient in Mandarin (Native Speaker), English (IELTS 7.5)

Programming languages: Python, Matlab, C++, Java, C, SQL

Computer: Cadence PSPICE, Allegro, MSC Patran, Mathworks Matlab, Simulink, Linux
Ubuntu 18.04 ROS Melodic, Gazebo, Microsoft word, excel, Powerpoint

HONORS

6th place worldwide, Virtual RobotX 2019, held by RobotX online, May 2019-November 2019

- Controlled a virtual robot based on prototype given by RobotX, competed with team Tang
- My main contribution is simple object detection algorithms with lidar