

William Chen

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EDUCATION

UNIVERSITY of MARYLAND at COLLEGE PARK(GPA:3.28)	Maryland, USA
MS in Electrical and Computer Engineering (ECE)	Expected June 2023
NATIONAL TAIWAN UNIVERSITY(GPA:3.11)	Taipei, Taiwan
BS in Engineering Science and Ocean Engineering (ESOE)	September 2018-June 2021

TEACHING EXPERIENCE

University of Maryland Department of Embedded Systems & Internet of Things	Maryland, USA
Graduate teaching assistant for ENEB 344 Digital Logic Design for Embedded Systems	Sep 2022~
<ul style="list-style-type: none">Teaching lab sessions and hold office hours to 5^{3rd} year undergraduate studentsCreating teaching materials for lab sessions and tutorials for Digital Discovery and BASYS 3 board	
AIRABBI Inc.	Taipei, Taiwan
Part-time CodingBar Teaching Assistant and Lecturer	May 2020-July 2020
<ul style="list-style-type: none">Taught 10 students ranging from 5th grade to high school PythonDrafted a course syllabus, wrote instructional plan, prepared lecture notes, and recorded full online lectures for BBC Microbit course	

RESEARCH EXPERIENCE

Graduate Research at UMD	
Part of a NIFA funded project regarding oyster harvesting	
<ul style="list-style-type: none">Conducting research with the Bio-Imaging and Machine Vision Lab as lab intern/master student regarding underwater and surface vehicle control and optimizationConducted research with the Perception Robotics Group regarding DVL and underwater image processing	
	May 2022~ Dec 2021~May 2022
Undergraduate Research at NTU	Aug 2020~Jul 2021
<ul style="list-style-type: none">Conducted research with the Computational Knowledge Lab and Advance Fluid and Power Control Lab regarding indoor Simultaneous Localization and Mapping (SLAM)	

SELECTED PROJECTS (complete portfolio on)

Advance Topics in Deep Learning	Jan 2022-May 2022
UMD CMSC 828L final project	
<ul style="list-style-type: none">Derive necessary equations for SLAM and compare in performance	
Robotics	Sep 2020-Jan 2021
NTU CSIE 5047 final project	
<ul style="list-style-type: none">Analyzed the kinematics and control systems of using the robotic arm to grab on to utensils and coded the necessary algorithms on ROS Melodic	
ESOE Capstone	Feb 2020-June 2020
NTU ESOE 5117 final project	
<ul style="list-style-type: none">Designed the circuit setup for the STM32 and the sensor layout on the boat as well as writing the necessary control algorithms for the navigation tasks	

COMPETITIONS

6th place, Virtual RobotX 2019, held by RobotX online	May 2019-Nov 2019
<ul style="list-style-type: none">Controlled a virtual robot based on prototype given by RobotX, competed with team TangCreated a simple object detection algorithm from lidar point cloud on ROS Melodic before constructing the whole system with the entire team	