

Ting-Che Lin

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EDUCATION

New York University Abu Dhabi, Abu Dhabi, UAE
Bachelor of Science in Mechanical Engineering, GPA: 3.86

May 2017

edX, Online Courses

Introduction to Bootstrap

August 2015

Scalable Machine Learning

August 2015

Introduction to Big Data with Apache Spark

July 2015

TECHNICAL SKILLS

Software and Library: Experienced in Arduino, SolidWorks, GitHub, OpenCV; Familiar with Bootstrap, Apache Spark

Computer Language: Proficient in Python; Competent in Matlab, C++; Familiar with HTML & CSS

Rapid Prototyping: Experienced in Laser Cutting, 3D Printing, Paper-crafting, Arduino, Raspberry-Pi

PROFESSIONAL EXPERIENCE

Dynamical Systems Laboratory, New York, USA

October 2015 – Present

Research Assistant

- Developing autonomous navigation system for the robotic boat that monitors water quality in Gowanus Canal in the Brooklyn Atlantis Citizen Science Project.
- Developing obstacle detection and river following system using Computer Vision and LIDAR

Wadi Drone, Abu Dhabi, United Arab Emirates

June 2014 – July 2015

Co-Founder/Chief Developer

- Managed the development of the working prototype of the Wadi Drone – The winning fixed wing drone from the 2015 UAE Drones for Good Award that aids the conservation of Wadi Wuhayah, the first National Park of the UAE
- Developed and tested the communication system on board of the drone and the peripherals
- Worked closely with World Wide Fund from Wadi Wurayah for the development and the usage of the Drone

New York University Abu Dhabi, Abu Dhabi, United Arab Emirates

February 2015 – July 2015

Research Intern

- Developed testing procedure and instruments that can determine the corn stalk strength more accurately than the current available procedures such as the Ryan Puncture Test
- Rapid prototyped the above mentioned measuring instrument using Arduino, 3D Printing and Laser Cutting
- Implemented dog-bone and cruciform tensile tests to measure the tensile strength of cornstalks and leafs

LEADERSHIP & COMMUNITY INVOLVEMENT

NYUAD International Hackathon for Social Good in the Arab World

April 2015

Chief Hardware Developer

- Developed and prototyped the Hardware for Hakeeme – The winning project of the hackathon that monitors the health of migrant workers and protects them against abuses

AWARDS

Winning Team, Drones for Good Award

2015

First Place, Annual NYUAD International Hackathon for Social Good in the Arab World

2015

ADDITIONAL INFORMATION

Languages: Fluent in Mandarin, English, and Spanish

Interests: Papercrafting