

Ting-Che Lin

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EDUCATION

New York University Abu Dhabi, Abu Dhabi, UAE
Bachelor of Science in Mechanical Engineering, GPA: 3.82

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, OpenFrameworks

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

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

PROFESSIONAL EXPERIENCE

The Dynamical Systems Laboratory, New York, USA
Research Assistant

October 2015 – Present

- Developing an autonomous navigation system for the robotic boat that monitors water quality in Gowanus Canal as part of the Brooklyn Atlantis Citizen Science Project
- Implementing an obstacle detection and river following system using Computer Vision and LIDAR. Code mostly written in C/C++

Wadi Drone, Abu Dhabi, United Arab Emirates
Co-Founder/Chief Developer

June 2014 – July 2015

- Managed the development of the working prototype of the Wadi Drone – First-place \$270k winner in the 2015 UAE Drones for Good Award that aids the conservation efforts in the Wadi Wuhrayah, the first National Park of the UAE
- Developed and tested the communication system on board of the drone and the peripherals closely with World Wide Fund from Wadi Wurayah

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

February 2015 – July 2015

- 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
Chief Hardware Developer

April 2015

- 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

Portfolio: tcl326.github.io