

Yu-Hsuan “Olivia” Lu

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No. 17, Xixing Rd., Hemei Township, Changhua County 508 Taiwan (R.O.C.)

Education

BS Engineering Science
National Cheng Kung University (NCKU)

June 2019
Tainan, Taiwan

International Student Exchange Semester
Université Paris-Est Marne-la-Vallée

January – July 2019
Paris, France

Working & Research Experience

Packaging Laboratory, National Cheng Kung University (NCKU)
Research Assistant

August 2018
Tainan, Taiwan

- Worked on a Building-Integrated Agriculture (BIA) project sponsored by Sunny Rich Power Co., Ltd. to design an eco-friendly mushroom farm that utilizes solar power efficiently, aimed at energy conservation and budget reduction
- Harnessed buoyancy-driven ventilation, used numerical methods to design a structure that utilizes the temperature gradient from roof-mounted solar panels to trigger buoyancy-driven ventilation inside building and cool down the ambient temperature to sustain a temperature suitable for mushroom growth, therefore reducing the need for air conditioners
- Reduced operation costs by using the farm’s own solar power while decreasing the number of air conditioners used; the farm also earned money by selling extra power back to the power grid

Chang Hua Hospital, Taiwan Ministry of Health & Welfare
Informatics Department Intern

July - August 2017
Changhua, Taiwan

- Maintained the hospital’s database system and helped other divisions with hardware difficulties
- Cooperated with hospital staff and colleagues

Honors, Research Projects & Extracurricular Activities

First Prize, Physics Contest; National Cheng Kung University

Spring 2018

“Analysis of Global Climate Using Numerical Methods” (Independent Study Project)

Sep 2017 –2018

- Conducted research under the supervision of Professor Jung-Hua Chou (NCKU)

“Electric Shiba Inu (電力小柴犬) for Taipower” (Group Project)

August 2017

- Conducted research under the supervision of Prof. Wei-Guang Teng (NCKU)

Volunteer, NCKU Buddy-Buddy Program

Fall 2018

- Assisted foreign students with all manner of issues on campus

Foreign Language Exchange, on Campus at NCKU Tainan, Taiwan

2016 - 2018

- Engaged in regular Chinese tutoring & language study with English speakers on campus at NCKU

Skills

Tools: MS Visual Studio, Solidworks, MATLAB, Ansys FLUENT, COMSOL

Programming Languages: C, C++, Python, HTML, Java

Hardware Languages: Verilog, Arduino, 8051

Database Management: LAMP system, MySQL

Languages: Chinese (Native); English (Fluent)