

## EDUCATION

### University of California, San Diego

#### **B.S. NanoEngineering** |

September 2020 – **June 2024** (expected)

- Cumulative GPA: **4.0**
- **Provost Honors**
- **IDEA Scholar** (1 of 40 scholars)

### Washington High School, Taiwan

### The British International School of Kuala Lumpur, Malaysia

## TECHNICAL SKILLS

- **MATLAB, 3D Printing, TechSoft Design, Fusion 360**

## TECHNICAL EXPERIENCE

### Institute of Chemical Research of Catalonia (ICIQ)

Artificial Photosynthesis Project Researcher | July 2018  
(1 of 100 participants out of 2,500 applicants)

- Conducted extensive electrolysis and electroplating on fuel cells to deduce the most efficient catalyst for **hydrogen** production as energy, 8 hours a day
- Coordinated the team of 10 to present findings at the closing ceremony

### Armstrong Electromechanical Projects

Chief Design Engineer | August 2019 – June 2020

- Designed and **3D-printed** automatic alcohol dispensers in response to their shortage due to COVID-19
- Programmed with **Arduino**, assembled and soldered **circuits**
- Built customized self-watering devices for existing plant pots with **ultrasonic sensor circuits and motors**

### Cheng Ching Hospital

Medical Education Committee Intern | July – August 2019

- Facilitated one of the most prominent hospitals in Taiwan in transforming into a modern hospital by **digitalizing** and systematizing all medical records since 1998

### Ruian Clinic

Pharmacist Assistant | August 2019

- Increased the clinic's efficiency by 30% through reading prescriptions and dispensing 25 medications per hour
- Prepared and restocked medical products (creams, bottles, and pills)

### Chemistry Olympiad

Runners-up | May 2017

- Guided the team with possible solutions based on chemistry concepts learned in class to design experiments aiming to analyze an unknown mixture

## LEADERSHIP EXPERIENCE

### Associated Students Office of Academic Affairs

Programming Director | October 2020 – Present

- Organizing campus-wide events to gather student opinions and initiating dialogue between Associated Students and students
- Communicating with Academic Senators and academia

### Society of Asian Scientists and Engineers

President Intern | October 2020 – Present

- Reformed the weekly meetings and increased the efficiency by 50%
- Outreaching for collaborations and advertisement
- Planning events and workshops available to all students with other members of the board

### Taichung, Taiwan World Flora Exposition

English Guide, City Government Award Recipient |  
October 2018 – April 2019

- Promoted Taiwan's orchid breeding technologies to international officials and guests

### 2019 International Senior High School Summit

Taiwanese Representative | October – November 2019

- Elected as the team leader
- Initiated discussions on Sustainable Development Goal 11 (Sustainable Cities and Communities) and assigned tasks to members

### The Duke of Edinburgh's International Award

Silver Award | September 2017 – June 2020

- Volunteered to teach STEAM subjects to approximately 100 disadvantaged children through designing science experiments that are intriguing and educational in Malaysia and Taiwan
- Hiked and camped in the mountains several times without using any modern conveniences, nor purchasing anything

## NOTABLE ACHIEVEMENTS

### Violin and Electric Violin

- Rehearsed with professionals and soloists in the Kuala Lumpur Performing Arts Center Orchestra 3 hours every week
- Invited to perform for Princess Anne of England and Dr. Jane Goodall
- Formed a rock band

### Varsity Swimming Teams

- Persistently trained at least 4 times a week before and after school for 4 years

## LANGUAGES

English  
Mandarin  
Taiwanese  
Malay  
Spanish