

# MENG Zihan

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## Education

### Bachelor of Engineering (Electrical Engineering)

September 2020-June 2024

UNIVERSITY OF HONG KONG, Hong Kong, China

- Ranking: 1/62; GPA: 3.88/4.3
- 2023-2024 Research Internship Award
- 2022-2023 S Y King Memorial Scholarship in Electrical and Electronic Engineering
- 2022-2023 HK Electric Electrical Energy Scholarships
- 2021-2022 Dean's Honours List
- 2021-2022 Yook Tong Electric Co. Ltd. Electrical Energy Scholarship

## Professional Experience

### Summer Intern

June 2023-August 2023

UNITED GROUP (GLOBAL) LIMITED, Hong Kong, China

- Investigating single phase passive LED drivers that power street lights in and around HongKong Disneyland, which have higher robustness, longer lifespan and weather resistance.
- Evaluating models using simulation software.
- Optimizing the size and dimensions of components, including capacitor and inductor. Communicating with supplier products performing and assembling.

## Research Experience

### Three Phase LED Driver Lighting Technology

May 2023-Ongoing

UNIVERSITY OF HONG KONG, Hong Kong, China

- Developing improved passive LED drivers for street lighting with longer durability and more environmentally friendly components.
- Leading the research of a new dimmable technology that is key for passive three phase LED drivers that improve efficiency and output.
- Deriving two solutions: controlling dimmability of input and output.

### 3D Scanner Research Project

November 2021-April 2022

INNOVATION WING, UNIVERSITY OF HONG KONG, Hong Kong, China

- Assembled an EinScan Pro 2X Plus scanner on my own with the help of video instructions found online.
- Build an optimal working environment with a systematic approach, and did a test-run to create a 3D Pikachu model.
- Recorded tutorial videos and designed training modules for newcomers to learn the operation of the device.
- Became familiar with 3D scanning and improved my communication and problem-solving skills.

## Exchange Experience

### Association of Pacific Rim Universities: Virtual Student Exchange 2023-24

September 2023-ongoing

THE CHINESE UNIVERSITY OF HONG KONG, Hong Kong, China

- Learning personal meanings of life form through complex interactions between individuals and their societies.
- Analyzing life stories from different cultures to gain a new perspective on the evolution of purpose across history.
- Provoked deeper thinking about my own meaning and life path.

### 2023 SDG Global Summer School

Jul 2023-August 2023

ZHEJIANG UNIVERSITY, Hangzhou, Zhejiang, China

- Dissected smart systems and technologies, including IoT, service robots, mobility systems and more, for building intelligent cities of the future.
- Acquired knowledge on cutting-edge research and insights on creating smarter, more connected urban environments.

### GLOBEX Julmester Program

Summer 2022

PEKING UNIVERSITY, Beijing, China

- Explored financial techniques for project evaluation, including analyzing cash flow patterns, using economic measures, and decision-making techniques.
- Earned a grade of 90% in the final group project.

### Peking University Summer School International

Summer 2021

PEKING UNIVERSITY, Beijing, China

- Gained in-depth understanding of key factors of China's rapid progress, including economic reforms and globalization, its history and achievements and challenges for the future. Final grade: 93%
- Understood development economics through China's experience and covers the institutional changes and economic policies that have shaped the country's economic emergence and development challenges. Final grade: 91%

## Extracurricular Activities

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### Project Demonstrator

*August 2023-October 2023*

UNIVERSITY OF HONG KONG, Hong Kong, China

- Demonstrated wireless-power transfer technology and its application to UG Year 1 engineering students and citizens of Hong Kong on Annual Orientation for Engineering Students 2023 and HKU Information Day 2023.
- Gave presentations on the foundation of electrical engineering and curriculum of the EEE programme.

### Student Helper

*July 2023*

The International Council on Electrical Engineering (ICEE) Conference 2023, Hong Kong

- Guided participants and answered questions.

### Class Representative

*September 2021-June 2023*

UNIVERSITY OF HONG KONG, Hong Kong, China

- Facilitating communication between students and faculties.

### Co-organizer of Hip Hop Club

*September 2020-Ongoing*

UNIVERSITY OF HONG KONG, Hong Kong, China

- Co-founded the school's Hip Pop Club and organized frequent performances on campus and tours in Hong Kong.

### Community Service

*April 2023-September 2023*

BAPTIST CHURCH, Kowloon City, Hong Kong, China

- Helped senior citizens who received little support from their families.
- Awarded a scholarship for achieving satisfactory outcomes while working under academic and social pressure.

### Nucleic Acid Testing Volunteers

*July 2022-August 2022*

Nanning, Guangxi, China

- Volunteered in the nucleic acid test during COVID-19 pandemic.
- Helped senior citizens to navigate smart devices to input their personal information.

### Student Representative

*November 2021*

HKIE, Hong Kong, China

- Discussed with members of HKIE team on topics of the learning environment, curriculum design and career prospects of the HKU's BEng programme as the student representative.