

# Zhiyi ZHAO

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## EDUCATION

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### South China University of Technology

*B.Eng. in Electrical Engineering*

Selected courses: Electric Circuits, Analog Electronics, Digital Electronics, Power System Analysis, Power Electronics, Automatic Control Theory | GPA: 3.85 / 4.0 or 90.11 / 100 | Rank: 3 / 31

## RELEVANT EXPERIENCE

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### Multi-level Energy Exploitation Based on Hydrogen Storage

May. 2022 – July. 2022

*Supervisor:* Prof. Jiehui Zheng and Prof. Zhigang Li, SCUT

- Incorporated the electric energy converted from renewable energy sources such as wind energy and solar energy into the grid or used it for electrolysis to generate hydrogen for storage
- Achieved multi-level energy utilization of integrated energy through fuel cell power generation, waste heat utilization of hydrogen energy storage, and synthesis of industrial raw materials

### Design of Smart Access Control System Based on RFID and Bluetooth Technology

Mar. 2022 – May. 2022

*Supervisor:* Prof. Guangzheng Yu, SCUT

- Established communication between Arduino and RFID module, Bluetooth module to form the main part of the system
- Implemented three parallel door opening methods: button unlocking, card unlocking, and Bluetooth input password unlocking

### IoT-based Off-grid Solar Panel Monitoring System

Mar. 2022 – May. 2022

*Supervisor:* Prof. Mengshi Li, SCUT

- Designed an off-grid solar panel monitoring system integrated on a phone-sized PCB
- Utilized the wide coverage characteristics of NB-IoT network to adapt to various application scenarios
- Built a personal web server to extract data from SQL server and display it on the front-end interface

## ACTIVITIES

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### Guangdong-Hong Kong-Macao Greater Bay Area Summer School 2021, CUHK

July. 2021

- Read excerpts from classic texts such as Plato's *The Republic* and Newton's *The Principia* in the course [UGFN1099: Reading Nature](#) taught by Prof. WONG Wing Hung. Wrote several reflection journals in English

### Summer in Japan 2021, Kyushu University

July. 2021

- Received a scholarship equivalent to the tuition fee, which is only awarded to “applicants whose academic records are evaluated as particularly strong by the SIJ selection committee”
- Achieved S (90-100) grades in the chosen courses *Interdisciplinary Lecture Series (ILS)* and *Japanese Language Course (JLC)*  
[The program reflection](#) was posted on the program's official website

## AWARDS

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- National Scholarship (Top 0.2% national-wide) Dec. 2022
- First Prize in the 1st [Electrical & Electronics Engineering Innovation Competition](#) (Southern Division) July. 2022

## SKILLS

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- **Language:** CET-6 551
- **Programming:** C++, Python
- **Tools:** Matlab/Simulink, PSCAD, Multisim, Quartus, T<sub>E</sub>X, Origin

Last Updated on April 14, 2023