

Zhiyi ZHAO

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EDUCATION

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

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

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

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

SKILLS

- **Language:** CET-6 551
- **Programming:** C++, Python
- **Tools:** Matlab/Simulink, PSCAD, Multisim, Quartus, T_EX, Origin

Last Updated on April 12, 2023