

# WU HONGFAN

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## EDUCATION BACKGROUND

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**Nanyang Technological University**

*Aug.2022-Jun.2023*

**Major:** Computer Control and Automation

**Degree:** Master of Engineering (will be awarded in June 2023)

**Huazhong University of Science and Technology**

*Sept.2018-Jun.2022*

**Major:** Electrical Engineering and Automation

**GPA:** 3.81/4.00

**Degree:** Bachelor of Engineering (awarded in June 2022)

**Computer Skills:** Python, Matlab, C++, AI designer, MySQL, ARM Keil, PSIM, COMSOL

**Language Skills:** Chinese (native): Grade 2A in National Putonghua Proficiency Test (PSC)

English (fluent): IELTS (7); CET-6 (572); CET-4 (598)

### Awards:

“*Outstanding Graduate*” of Huazhong University of Science and Technology

Individual Scholarship: Innovation of Science and Technology Scholarship

Individual Scholarship: Study scholarship

H Prize of Interdisciplinary Contest In Modeling (ICM)

The Second Prize of “Puyi Cup” National College Students English Writing Contest

The Excellence Award in “Qishi Cup” College Student Entrepreneurship Plan Contest ( by virtue of the project “The Flash” APP for New Energy Car Charging Service)

The Outstanding Volunteer of Youth Reading Challenges Forbes World Record, Asia & Pacific Area

## ACADEMIC ACTIVITIES

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**Inverted Pendulum Research on Signal and Control Integrated Experiment**

*Sept.2020-present*

- Completed one-order inverted pendulum control algorithm based on STM32, and further carried out the inverted pendulum heavy load research, which adopted PI control and had good robustness

**College Students Innovation and Entrepreneurship Training Program**

*May.2020-May.2021*

- Project: Development of Distributed Home Environment Monitoring and Intelligent Security Perception System based on Internet of Things (IoT)
- Served as the team leader to lead the team members to complete the architecture design of the IoT, designed the prototype with Single-chip Microcomputer, and improved it into the second generation, being responsible for code and welding
- Obtained and successfully completed the university-level project approval; completed the paper *IoT Smart Home System Based on STM32 under Edge Computing Environment*

**The Summer Camp Cooperated by Shinetech Software and Huazhong University of Science and Technology**

*Aug.2020-Sept.2020*

- Project: Intelligent Face Recognition and Face Changing System Based on Python Development
- Responsible for the development of face recognition system and image cropping, which were based on a dilb database of Python

### **China-U.S. Young Maker Competition**

***Jul.2019-Aug.2019***

- Project: The Production of the Smart Medicine Box Based on the IoT and Arduino Development Board
- Participated in and led the development of hardware and software, got familiar with the basic application of Single-chip Microcomputer, and carried out development using C language combined with Single-chip Microcomputer

### **INTERNSHIP EXPERIENCES**

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**Assistant to Electric Vehicle Charging Station Engineer of Guangdong Shangsheng New Energy Technology Co., Ltd.**

***Jul.2020-Aug.2020***

- Familiar with the knowledge of the electric vehicle charging station and participated in problem solving work
- Tried to develop relevant APP projects to solve the problems of irregularity and dispersion in the current charging APP market, such as the project "The Flash" APP for New Energy Car Charging Service

### **EXTRACURRICULAR ACTIVITIES**

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**TheClass Cadre in Charge of Finance Issues**

***Dec.2020-present***

- Responsible for the issuance and review of the sponsorship and scholarship in the class

**TheClass Cadre in Charge of Students' Daily Life Affairs**

***Aug.2018-present***

- Responsible for helping to solve problems classmates encountered in their lives and inspecting the health quality in the whole grade

**Member of the Public Relations Department, Huazhong University of Science and Technology** ***Oct.2019-Dec.2020***

- Responsible for the operation of the department's public WeChat account, including article writing, typesetting and issuing