Huang Honglin

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Education

undergraduate, Shenzhen University	**Major in Automation**	**September2022 - present**

Work experience

Zhulan Education Technology Co., LTD	**Project Assistant**	**2022.07-2022.08**

Main responsibilities：
- Use automated technology to understand the higher education system and enrollment policies, and provide students and parents with the latest college admission information interpretation.

Project experienc

Jia You Hua'an - children companion learning robot   **February 2024 - present**

The project aims to provide an efficient and convenient desktop solution for children by integrating advanced robotic arm technology, image recognition and processing technology, intelligent control algorithms, and voice interaction. Served as the main person in charge of the control part in this project, with STM32 as the main controller, combined with relevant knowledge of the robotic arm, to develop the motion control of the robotic arm

Smart shoe cabinet   **December 2023 - September 2024**

Participated in a smart shoe cabinet design project aimed at innovating home life experience, the shoe cabinet set storage, cleaning, drying, disinfection and other functions in one, using advanced Internet of Things technology and intelligent control, to provide users with a highly integrated and humanized solution. Through in-depth study of user needs, combined with mechanical design, electronic engineering and software development, an intelligent system that can automatically identify and deal with shoe types has been successfully realized

All-terrain obstacle trolley   **September 2023 - August 2024**

Participated in the design and assembly of an all-terrain intelligent balanced transport car, which realized the whole process of autonomous control from identifying obstacles to crossing them. The car adopts modular design and adaptive control strategy, which can autonomously traverse a variety of complex obstacles such as narrow Bridges, pipelines and stairs, and has autonomous tracking, color recognition and other functions. The focus of the project is to achieve stable driving and accurate operation of the car on different terrains through innovative mechanical structure design and intelligent algorithms.

Competition experience

• August 2024	National Finals of the 18th CIMC "Siemens Cup" China Intelligent Manufacturing Challenge in 2024	National first prize
• **July 2024**	**The 7th China University Intelligent Robot Creativity Competition in 2024**	**National third prize**
• November 2023	2023 The 5th International Youth Artificial Intelligence Competition - China Division Selection	National third prize
• **August 2023**	**Chuangyi Cup "National College Students New Entrepreneurship Competition**	**National gold medal**

Vocational skill

- Proficient in C, C++, Python and other programming languages, with a solid foundation of data structures and algorithms, able to efficiently develop and debug software.
- **Rich experience in embedded system design, familiar with ARM, STM32 and other microcontroller architectures and their application development.**
- Proficient in Siemens PLC and related programming tools, able to develop and maintain industrial automation control systems
- **Proficient in Word, Excel, PowerPoint and other Office suite, able to efficiently handle documents, data analysis and presentation production**

Personal evaluation

- **Possesses solid knowledge in automatic control theory, signal processing, and sensor technology, proficient in C/C++ and Python programming, and can apply these skills flexibly in the design and implementation of various control systems.**
- Maintains a strong curiosity and enthusiasm for learning new technologies, played a key role in multiple team projects, and excels in communication and collaboration.