



He Binglin

Age: 22
 Qualification: Bachelor
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Self-assessment

Keen on promoting self ability, rich management experience as President, leader and manager, strong physical fitness and solid scientific research strength, participated in various competitions including electricity, embedded and smart + connected series, college students' innovative entrepreneurial project, national college students' innovative entrepreneurial project with rich extracurricular knowledge and skills.

Education Background

Donghua University
 2018-2022
 Excellent Automation
 Bachelor

Professional Courses:
 Automatic Control Principle, Modern Control Theory, Process Control System, Signal and Linear System, Web intelligent System development and Database, System Modeling and Simulation and Practice, Robot and Control, Introduction to Artificial Intelligence, Analog Electronic Technology, Digital Electronic Technology, Microcomputer Principle and Interface Technology

Awards

General Skills certificate: CET-6, Computer Rank 2 Certificate, Motor vehicle driving License

Competition Certificate: Third prize of The National College Students Electronic Design Competition, third prize of the Eastern Division of the Third National College Students Embedded Chip and System Design Competition

School awards: 2018-2019 and 2019-2020 Social Work Excellence Award
2019-2020 Outstanding Engineer Award

Project Experience

2020.11 **TI Cup Shanghai National Undergraduate Electronic Design Contest**

The project name is Wireless Motion Sensor, I am responsible for using the MPU6050 six-axis sensor to count steps, app Bluetooth to transmit data, ADS1292 to record ECG, measure heart rate, LMT70 to measure room temperature and inter-board communication parts. Bluetooth data packaging technology, interrupt technology, I2C communication technology and filter processing technology are used.

2020.11 **The Third National College Students Embedded Chip and System Design Competition**

The project name is smart home lighting control system, responsible for the part of the pwm wave control bulb brightness and photoresistor measurement light intensity combined to form a light control bulb design. Use the pwm period and frequency to set the pwm period and frequency as well as the ADC sampling technique.

2021.12-now **Shanghai Chunxue Robot Technology Co., LTD. Research and Development**

Mainly responsible for the use of python's opencv library image recognition and camera robotic arm eye-hand linkage, designed the camera according to the color HSV threshold color recognition positioning and conversion into robotic arm coordinates guidance robotic arm color block system, with inno setup packaged into downloadable software, to achieve monocular camera ranging, as well as from the camera different heights of the plane image coordinate conversion

2019.3-2020.3 **Shanghai Innovation and Entrepreneurship Project**

The project is based on the modular design of the combined integration controller of opto22, the principle is to design the corresponding combination integration controller according to the combination integration model in the industrial process, to achieve excellent control such as no overshoot and rapid response that the traditional PID controller cannot reach, and to achieve the simulation effect by realizing the communication between OPTO22 and Simulink through OPC.

Internship Experience

2020.7-2020.9	Yellow River Survey and Design Institute Co., Ltd	Intern
2021.12-now	Shanghai Chunxue Robot Technology Co., LTD.	Research and Development
2020.9-now	Tiny World Coffee Shop	Manager