



## Haoran Yang

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### EDUCATION

**Chongqing University** 985 211 Double 1st-Class 2017.09 - 2021.07  
Automation Bachelor Chongqing

- Related courses: Process Control Systems, Control Technology Engineering Design, Programmable Automation Controller and Configuration Software, Motion Control Systems
- Honor/Award: The 5th Chongqing University Student Innovation Training (Awarded "Commendable" in 2020)

### UNIVERSITY PROJECTS

**Design of recognition and classification algorithm for inland river visual navigation beacons based on deep learning** 2023.11 - 2024.06

- Designed and implemented an automatic recognition system for inland river visual navigation marks using YOLOv7, including the collection and processing of navigation mark image data.
- Trained a deep learning model to accurately identify various types of navigation marks and detect abnormalities such as damage and missing lights.
- Developed a QT-based human-computer interface to display recognition results and support the upload of images and videos.

**Quadrotor UAV design and production** 2023.04 - 2023.09

- The controllable flight of UAV with six degrees of freedom is realized, and the scheme design and device selection are carried out.
- The flight control program is developed based on STM32F407 MCU, and the PCB is designed by Altium Designer.
- Assemble mechanical structure, conduct flight test and debug PID parameters (Betaflight).

**Game module software design** 2021.05 - 2021.11

- October 2021 Sell the right to use the software to Hangzhou Bluebroadcast Technology Co., Ltd.

**Design of experimental device for measuring paper capacitance** 2020.06 - 2021.06

- Develop and manufacture modular paper capacitance measurement prototype, responsible for scheme design and time planning.
- Mainly responsible for embedded development (STM32F103), coordinating the work of team members.
- Participate in PCB board design using Altium Designer.

### EXTRACURRICULAR ACTIVITIES

**Chongqing university YIBAN** 2017.10 - 2019.05

Project Minister

- Responsible for planning and implementing activities, including program design, budget planning, time node formulation and personnel arrangement.
- Follow up the project progress, carry out node acceptance, coordinate the work of various departments, and ensure the smooth development of activities.

### INTERNSHIP EXPERIENCE

**Sichuan Changhong Electric Appliance Co., Ltd** 2024.07 - 2024.08

Embedded Driver Software Engineer Product Research and Development Department Mianyang

- Responsible for the development of motor drive software for home appliance products

**Chongqing Chuanyi Automation Co., Ltd** 2021.07 - 2021.08

Intern Manufacturing Department Chongqing

- Learn about flexible manufacturing systems, factory electrical automation systems, and participate in the manufacturing process of industrial automation instruments and precision machinery.

### ADDITIONAL INFORMATION

**Languages:** Mandarin (Native), English (Fluent)

**Personal Website:** www.qingqibu.com