

Zhifeng Hong

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EDUCATION

Northwestern Polytechnical University

Sep 2019 - Jun 2023

Software engineering Bachelor School of Software

- GPA:3.781, ranking 3/285(Top 1.05%, first five terms)
- Comprehensive evaluation ranked: 4/285(Top 1.40%)

HONORS & AWARDS

2020 National scholarship

2020 Outstanding students of Northwestern Polytechnical University(First Class Scholarship, Top 5%)

2021 Wu Yajun special scholarship(Scholarship awarded to 3rd student except those who won the National Scholarship)

2021 Outstanding students of Northwestern Polytechnical University(First Class Scholarship, Top 5%)

3rd place(2nd prize) in China Robot Competition UAV Challenge Target Recognition Project(National) Nov 2020

2nd prize in National Robot Championship Intelligent Operation Competition of Aerial Robot(National) Jan 2021

3rd prize in 2021 RoboMaster University AI Challenge(National) Apr 2021

3rd prize(Successful Participant) in 2021 Interdisciplinary Contest In Modeling(International) Apr 2021

PROJECT EXPERIENCE

2020 China Robot Competition UAV Challenge

Feb 2020 - Nov 2021

Core member responsible for computer vision works

- Responsible for all target recognition tasks of three sub-events(UAV Delivery, UAV Target Recognition, and UAV Cruise) and help our team to 3rd place in UAV Delivery and UAV Target Recognition.
- Use C++ and Python as programming languages, combined with OpenCV vision library, ROS, traditional vision algorithms and deep learning techniques to solve problems.
- Solve the problems of world coordinate conversion, target recognition and positioning, QR code scanning, communication between vision node and UAV strategy center node, etc.

2021 RoboMaster University AI Challenge

Oct 2020 - Apr 2021

Computer vision team member

- Wrote half of the competition vision technical proposal and technical report, in which a method of using open source 3D vision algorithm for pose recognition is proposed to predict the movement of enemy. Finally, our technical proposal won the 2nd prize.
- Solve the problem of the vision code deployment environment on the on-board platform and the communication between the two vision nodes.

National Undergraduate Training Program for Innovation and Entrepreneurship

May 2021 - Present

Project manager

- As the project manager, I was responsible for the selection of the project topic, the writing of most of the project opening application, and the opening defense. Finally our project was recognized as a national project.
- Our project is called *a surveillance system with multi-camera access and intelligent warning function*. We propose to combine face recognition and gait recognition technology in a surveillance system to identify strangers in a more intelligent way.

SKILLS

- Proficient in using C++, Java and Python for object-oriented programming and project development.
- Familiar with the use of Linux operating system, ROS, OpenCV, Docker, Git and other tools.
- Familiar with the process of dataset labeling, and training, deployment and use of some open source neural network model.
- Knowledge of robot software architecture and how to deploy and debug vision code on the robot.