

Yunxue Pan

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EDUCATION

The University of Manchester	Manchester
Major: Robotics	09/2024 - Present
Donghua University	Shanghai
Major: Automation GPA: 3.73/5.0 Ranking: 18/180	09/2020 - 06/2024
Core Modules: Automatic Control System (93), Computer Control Technology (92), Introduction to Artificial Intelligence (90), Analog Electronics (88), Digital Electronics (84), etc.	

RESEARCH EXPERIENCE

Project 1: Leo Rover Group Project	09/2024-Present
<ul style="list-style-type: none">✓ Developing motion planning algorithms to enable precise object grasping. Worked on special campaigns and surveys of system users✓ Implementing control strategies to ensure stable and accurate arm movement.✓ Integrating perception data to enhance object recognition and positioning.✓ Optimizing the grasping and transport process for efficiency and reliability.	
Project 2: Development of A Student Information System	09/2022-11/2022
Researcher, Supervisor: Prof. Tao Gong	
<ul style="list-style-type: none">✓ Cooperated with team members to design the system focused on recording and updating the student data✓ Worked on special campaigns and surveys of system users✓ Used HTML and Java to create front-end pages and called student information in the MySQL database✓ Identified flaws in the design of the system and created solutions to ensure smooth roll-out of the final product✓ Created multiple tracking tools to identify load errors or missing pages within the student system	
Project 3: Design of Electronic System for Subject Reaction Time Recording Based on FPGA	07/2022-08/2022
Researcher, Supervisor: Dr. Genlong Chen	
<ul style="list-style-type: none">✓ Designed a physiological reaction time tester utilizing Intel (Altera) programmable device development platform Quartus II software and some common digital circuits based on FPGA✓ Simulated the model characteristics and the proposed algorithm with the mathematical equations using MATLAB environment✓ Examined the system performance✓ Proposed some solutions to simplify the system based on the design constraints for hardware implementation of digital controller on FPGA✓ Completed the report to explain the design principles and working methods of the system	
Project 4: Design and Production of Mobile Shooting Robot 'Hero'	10/2021-06/2022
Principal Electronic Controller, Supervisor: Prof. Yujie Chen	

- ✓ Formulated the system design by collecting and studying relevant cases
- ✓ Cooperated with team members to write the program for robot shells launching
- ✓ Completed the PCB design and pattern making of the voltage conversion module
- ✓ Debugged the parameters of the robot's movement to enable it to achieve over 50% hit points
- ✓ Applied negative feedback control methods such as speed loop and angle loop to write control programs
- ✓ Performed hardware and software integration, verification, and sustaining engineering efforts

AWARDS & HONORS

University Level Second Class Scholarship	12/2022
Third Prize in the 21st National College Robot Competition	08/2022
Second Prize of 2022 RoboMaster Super Competition Regional Competition (Eastern Division)	06/2022
Academic Excellence Award	11/2021

SKILLS & INTERESTS

Computer Skills: Proficient in C, C++, MATLAB, LabVIEW, STM32CubeMX, Altium Designer, **ROS2**

Language: IELTS 6.5