

# YUNXUE PAN

Female | 23 | IELTS 6.5 | CET-6  
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## Education

The University of Manchester <b>QS35</b>	Msc Robotics	09/2024-12/2025
Core Courses: Robot Systems; Cognitive Robotics and Computer Vision; Fundamentals of Machine Learning; etc		
Donghua University <b>211</b>	BEng in Automation	09/2020-06/2024
GPA: 3.74/5.00 (Top 10% in Major)		
Core Courses: Principles of Automatic Control; Modern Control Theory; Process Control Systems; etc.		

## Project Experience

Design of Imitation Learning Strategy for Obstacle-Avoiding Robot Grasping	06/2025-09/2025
<ul style="list-style-type: none"><li>Project: Designed imitation learning strategies for Franka Emika Panda robotic arm in obstacle-rich environments using <b>robosuite</b>. Focused on enhancing grasping stability through data and model optimization.</li><li>Technical details: Built PickPlaceCanWithObstacle scenario; collected/processed two datasets (obstacle-free/obstacle-rich) for training; implemented <b>BC</b>, <b>HBC</b> and <b>MHA</b>-integrated HBC models, comparing their performance.</li><li>Responsibilities: Independently set up environment, handled data processing, developed all three models and analyzed results.</li><li>Achievements: Optimized HBC model achieved <math>0.72 \pm 0.04</math> success rate (up from <math>0.49 \pm 0.08</math>), validating effectiveness of data and architecture improvements.</li></ul>	
Design of Leo Rover: Autonomous Obstacle Avoidance, Recognition and Grasping Robot	09/2024-05/2025
<ul style="list-style-type: none"><li>Project: Developed an intelligent mobile robot on Leo Rover platform, integrating target recognition, path planning and robotic arm grasping.</li><li>Technical details: Used <b>Gazebo</b> for simulation; obtained object positions via depth camera; implemented end-effector pose control through inverse kinematics; with hands-on experience in <b>SLAM</b> algorithms and path planning processes.</li><li>Responsibilities: Led robotic arm module development/control; achieved system integration and execution via <b>ROS2</b>; designed multi-module communication for task scheduling.</li><li>Achievements: Stable recognition, avoidance &amp; grasping (sim/real); <math>\pm 0.8\text{mm}</math> arm accuracy; system ran steadily.</li></ul>	
RoboMaster Robot Design (University Competition Project)	10/2021-08/2022
<ul style="list-style-type: none"><li>Project: Designed control system and launching mechanism for competition robot.</li><li>Technical details: Developed <b>PID</b> control algorithms in C; built speed/angle loops; independently tuned parameters, improving hit rate from 60% to 90% via 10+ iterations.</li><li>Responsibilities: Handled core control algorithm coding and hardware work including <b>PCB</b> routing/ packaging.</li><li>Achievements: Launch module contributed over 50% of team's score, helping win <b>National Third Prize in RoboMaster</b>.</li></ul>	

## Internship Experience

Ronovo (Shanghai) Medical Technology Co., Ltd.	Electrical and Electronic Engineer Assistant	03/2024-06/2024
<ul style="list-style-type: none"><li>Independently tested 100+ medical device circuit boards (100% continuity accuracy, voltage error <math>\pm 0.05\text{V}</math> max); identified dozens of interface anomalies, assisted troubleshooting, and ensured assembly progress.</li><li>Analyzed PCB schematics for pin logic/abnormal connections; proficient in comparing physical components with circuit diagrams.</li></ul>		

## Honors and Awards

First-Class Scholarship, Donghua University (2023)	Academic Excellence Award, Donghua University (2021)
Second-Class Scholarship, Donghua University (2022)	National Third Prize in the 21st <b>RoboMaster</b> Competition (2022)

## Technical Skills

Proficient in ROS2, Gazebo, Mujoco, Python	Skilled in C, PLC, Matlab
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