

Yu Zhuoyuan

Email: yuzhuoyuan@u.nus.edu| +65-88850740

EDUCATIONAL BACKGROUND

National University of Singapore, NUS, Singapore	08/2023-05/2025
<ul style="list-style-type: none">Major: MEng in Mechanical Engineering (2 years)Average : 5.0 / 5.0	
Northwestern Polytechnical University, NPU (985 & 211), Xi'an, China	09/2019-07/2023
<ul style="list-style-type: none">Major: BEng in Aircraft Design and EngineeringAverage: 84%Scholarship: Second Prize Scholarship (10/2022)	

PROFESSIONAL & LAB EXPERIENCE

Institute for INFOCOMM Research (I²R)	
(Affiliated to Agency for Science, Technology and Research)	05/2024-Present
[Multi-Agent Path Finding Based on Deep Reinforcement Learning] Supervisor: Guo Hongliang	
NUS ME Control and Mechatronics Labs (Affiliated to NUS)	08/2023-Present
[Design of Buoyancy System and Mass Control System] / Supervisor: Chew Chee Meng	
Shaanxi Aircraft Design and Testing Technique Engineering Laboratory (Affiliated to NPU)	07/2020-09/2021
[Aircraft Overall Design] Supervisor: Ban Wang (Associate Professor, Research Areas: UAV Intelligent Fault Resilience and Self-adaptive Anti-jamming Control, UAV Online Trajectory Planning, Re-planning and Obstacle Avoidance)	
<ul style="list-style-type: none">Designed and made a four-rotor vertical take-off and landing logistics UAV;Studied the trajectory re-planning and obstacle avoidance of UAV.	

PATENTS

<ul style="list-style-type: none">A Kind of Vertical Take-off and Landing UAV Undercarriage Utility Model PatentUAV (Dual-powered vertical take-off and landing fixed-wing UAV) Utility Model PatentUAV (used for scouting, intelligence gathering, monitoring, aerial surveying, etc.) Design PatentTransportation UAV (for short-distance transportation of large cargoes) Design Patent	<div>03/2022</div> <div>11/2021</div> <div>11/2021</div> <div>11/2021</div>
---	---

CONTEST & PRIZE

[Highlights]	
<ul style="list-style-type: none">China International Internet+ College Students Innovation and Entrepreneurship Competition	10/2021
[National Gold Award] Small Heavy Oil Aero-Engine	
<ul style="list-style-type: none">China International Internet+ College Students Innovation and Entrepreneurship Competition	08/2021
[Provincial Gold Award] UAV Routing Electric Power Inspection	

EXTRACURRICULAR ACTIVITIES

<ul style="list-style-type: none">NPU School of Aeronautics Student Union PresidentVoluntary Epidemic Prevention and Control, NPU Leader & Anti-pandemic Pioneer	<div>04/2021-06/2022</div> <div>12/2021-02/2022</div>
--	---

CERTIFICATE & SKILLS

<ul style="list-style-type: none">Python, MATLAB, SolidWorks, CatiaCurrently learning: ROS1, GazeboC++, ArduinoFlute, Calligraphy, Basketball
--