Zijun Wang

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Education

Sun Yat-sen University

Undergraduate Major in Intelligent Science and Technology 2021.09 - Present

Links

Blog:

cleversmall.com

Github: lankoestee

GPA

Overall **3.8/5.0 •** 32/110 Past two semesters **4.33 •** 1/110 **4.20 •** 6/110

Courses Taken

Advanced Mathematics
Linear Algebra
Probability Theory
Deep Learning
Computer Vision
Natural Language Processing
Fundamentals of Autopilot
Digital Logic Design
Signal and System
Optimization Theory and
Method

Skills

More Proficient
Python • C++ • ROS • PyTorch •

LETEX
More Familiar
C • MatLab • C# • Unity

Languages

CET-6 • 543 CET-4 • 600

Research Experience

Optimization of an indoor drone obstacle avoidance system based on TX2_NX Leader

2022.11 - 2023.11 | Supervised by: Ximin Lv

- Received funding from the Sun Yat-sen University Student Innovation and Entrepreneurship Training Program, with a ranking in the top 20% during the evaluation and defense.
- Developed and integrated an ego-planner indoor obstacle avoidance system based on the TX2_NX and Coolpi onboard computers.

Storytelling Video Generation Leader

2024.02 - Present | Supervised by: Xiaodan Liang

- The goal is to develop a story-based video generation model base on the consistency of tasks and cross-clip video generation.
- The project is still ongoing.

Awards and Honors

China university Aircraft Design Competition First Prize 2022.12

• Achieved level-flight of a small rocket with altitude error much lower than the second place.

 Responsible for electromechanical system design and control algorithm implementation.

China Robot Competition and RoboCup China Open Second Prize 2023.10

• Completed the indoor drone package delivery and obstacle avoidance task.

• There was no prior history of participation in this competition from our school, so we started from scratch and explored the process.

• Used Ego-Planner and VINS fusion-based localization and obstacle avoidance, combined with YOLO for object detection.

Mathematical Contest in Modeling Honorable Mention 2023.02

Others

202	.5 IIIII PIIZE	China Undergraduate Mathematical Contest in Modeling
202	3 Second Prize	Sun Yat-sen University Scholarship
202	2 Third Prize	Undergraduate Research Competition on Assisting Rural Revitalization
202	2 Third Prize	Sun Yat-sen University Scholarship

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Partial Coursework

Third Drive

rrtpd-planer ROS-Python

- Manually implemented the RRT-based path planning algorithm and PD controller algorithm.
- Accumulated full-stack ROS project experience from map generation, path planning to control.

Plant Pathology 2021 PyTorch•Python

- Used PyTorch to implement an effective plant pathology image classifier based on Swin Transformer, Query2Label, and FPN.
- Accumulated PyTorch coding and deep learning project experience.

MetroSearch Qt-C++

- Implemented a metro transfer route query system using C++ and Qt that can retrieve information on all cities nationwide, with over 2,000 lines of code.
- Gained basic C++ project experience.