

Yutian Chen

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EDUCATION

- B.Eng (Hons) in Robotics Engineering** 2020-2024(expc.)
Chu Kochen Honors College, Zhejiang University
College of Control Science and Engineering, Zhejiang University
GPA: 3.97/4.0, 91.16/100
Rank: 1/34
CET-6: 582
Technical Skills: Python with PyTorch, C/C++, Linux

HONORS

- | | |
|---|----------------|
| National Scholarship | December, 2021 |
| National Scholarship | December, 2022 |
| Outstanding Student Cadre | May, 2022 |
| Scholarship for Excellence of Chu Kochen Honors College | October, 2022 |

PROJECTS

- Project 1: 3D reconstruction and pose optimization** demo 09/2022-now
 - Novelty: Propose a novel framework which uses monocular features supervision to improve multi-view 3D reconstruction and pose optimization quality under sparse viewpoints.
 - Contributions: I implemented the approach, conducted experiments and analyzed the results.
 - Results: Outperform the methods such as NeRF and DS-NeRF for 3D reconstruction under sparse viewpoints.
- Project 2: 2D lidar mapping and localization** 11/2022
 - Used the ICP algorithm with 2D LiDAR data as the odometry and employed the EKF algorithm to fuse noisy GPS information and achieve point cloud mapping and localization.

CONTESTS

- Engineering Training Integration Ability Competition** demo First Prize
 - Responsible for the design and control of the manipulator and the communication between the upper and lower computer.
 - Design and build a mobile cart to recognize and grasp objects.
- China Undergraduate Mathematical Contest in Modelling** First Prize of Zhejiang Province
 - Responsible for the design of optimization algorithms.
 - Established a kinematic model of the wave energy harvesting device and found the maximum value of the average power using Fourier series and genetic algorithm.
- Mathematical Contest In Modeling** Finalist
 - Responsible for modelling and coding.
 - Established a power profile model and an optimizing model to provide a cyclist with the best strategy to win a time trial race using nonlinear optimization.