YEKE CHEN

✉ chenyeke@zju.edu.cn ⌂ https://github.com/shieldkeke

Education

Zhejiang University   **Hangzhou,China**
Bachelors of Automation   *2020 - Present*

- **overall GPA:** 3.94/4.00, 89.8/100
- **ranking:** 3/58
- **Selected Coursework:** Lectures on Programming 98,Foundamentals of C Programming 95, Robot Modeling and Control 92, Air-robots 92, Comprehensive Practice of Robot and Intelligent System 97
- **Scholarships:** two Zhejiang provincial government scholarships; two second-class scholarships

Experience

ZJUNlict(a RoboCup SSL team)   **Zhejiang University**
Team member   *6/2022-6/2023*

the State Key Laboratory of Industrial Control and Technology - Robotics Lab   **Zhejiang University**
Research intern advised by Prof. Rong Xiong and Prof. Yue Wang   *7/2023-Present*

Personal Projects

Continuous Trajectory Generation for Autonomous Driving   **5/2022-5/2023**

- Participated in datasets making and neural networks training

Soccer Robot   **6/2022-6/2023**

- Developed the parallel multi-vehicle-ball-passing-point calculating module based on OpenAcc
- Refined the zero and non-zero speed ball interception modules
- Regularized the passing strength

Supermarket Shopping Robot - LINK   **12/2021-5/2022**

- Designed the robot from scratch and implemented functions such as object detection, multi-device communication, object grasping, and line-following

Quadruped Robot   **7/2023-Present**

- Online COM trajectory and foothold optimization for quadruped locomotion
- End-to-end trajectory and foothold planning based on single frame vision and reinforcement learning for quadruped robot

Path Planning and Tracking - LINK   **7/2023**

- Realized RRT*, A* and JPS path planning methods; realized DWA and simple trajectory tracking methods

Space Robot - LINK   **7/2023**

- Completed the inverse kinematics code of the space robot and the trajectory planning code of joint space based on polynomial interpolation

Awards

Zhejiang Robot Competition-First Prize   5/2023

China Robot Competition/Robocup China (SSL)-Second Prize   11/2022

Zhejiang Robot Competition-Second Prize   8/2022

Zhejiang University Robot Competition-First Prize   5/2022&5/2021

Technical Skills

Python/C/C++/MATLAB/ROS/Pytorch/SolidWorks/OpenCV/CUDA C