# Yeke Chen

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## Education

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

- **overall GPA:** 3.94/4.00, 89.8/100
- **major GPA:** 3.96/4.00, 90.5/100
- **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*

## Projects

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

- Designed and trained a two-stage network, which generates continuous trajectory expressions
- Realized autonomous driving in CARLA.

**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**

- Realized online COM trajectory and foothold optimization for quadruped locomotion
- Proposed an end-to-end trajectory and foothold planning method 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 trajectory tracking method

**Space Robot - LINK** **7/2023**

- Completed the inverse kinematics of the space robot and the trajectory planning algorithm 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