

# YEKE CHEN

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## Education

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### Zhejiang University

Hangzhou, China

*Bachelor 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, Fundamentals 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

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### ZJUNliet(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

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### **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

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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

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