

Shuai Zhou

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[Personal Website](#)

EDUCATION

South China University of Technology

Bachelor of Engineering

GPA: 3.92/4.00 . Rank: 2/56

Core curriculum: Artificial Intelligence Technology and Application, Machine Vision and Sensing Systems, Robot Theory and Technology, Mechanic, Introduction to Engineering, Human-Computer Interaction, Industrial Robots and Applications, Embedded Systems and Design, Data Structure and Algorithm

Guangzhou, China

Sep. 2022 -Jun. 2026 (expected)

University of California, Berkeley

Exchange student in EECS

GPA: 4.00/4.00 .

Core curriculum: Core curriculum: Data Structures, Designing information devices and Systems I, Introductory Physics II and Introduction to Solid Mechanics

Berkeley, United States

Aug. 2023 - Dec. 2023

RESEARCH INTERESTS

Multi-agent-System, Motion Planning

Extracurricular self-study:

CMU: 10301/601 Introduction to Machine Learning

CMU: 16-782 Planning and Decision-making in Robotics

Coursera: Robotics: Computational Motion Planning

Recently read papers:

Enhanced Multi-Objective A* Using Balanced Binary Search Trees

Multi-Objective Path-Based D* Lite

Multi-Objective Safe-Interval Path Planning With Dynamic Obstacles

Multi-Agent Pathfinding: Definitions, Variants, and Benchmarks

Swarm of micro flying robots in the wild

RESEARCH EXPERIENCE

Fuxi

course project: A bionic powered underwater robot

Guangzhou, China

Sep. 2022 - Dec. 2022

- A 5-person team independently designed the bionic robot (without propeller) to avoid underwater obstacles and find the way to the end point, completed the robot appearance modeling and 3d printing through Solidworks, developed with stm32f4 motherboard, designed the driving structure with frog as the imitation object, and used visual sensors and acoustic sensors. The path is constructed using RRT when the 2-D maze map is known. At the same time, the three-dimensional relative position of the sensor perception obstacles is constructed to complete the obstacle avoidance map. I am responsible for the planning part

SKILLS

- **OS:** Windows, Linux(Ubuntu)
- **Programming Languages:** python, C/C++, Java, HTML,MATLAB
- **Version Control:** Git
- **Writing:** L^AT_EX, Office
- **Languages:** Chinese (native), English (fluent)
- **Test grades:** Gre(321),Duolingo(120)