Gaojing Zhang

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EDUCATION

University of Sussex – MSc Robotics and Autonomous Systems Sep 2023 – Mar 2025
GPA : 81.5% (FirstClass, Top1)

University of Henan normal – B.E. Computer Science and Technology Sep 2017 – Jun 2021
GPA : 86% (Top10%)

RESEARCH EXPERIENCE

2D Low Light Enhancement Jun 2024 – Oct 2024

submit to CVPR2025

Proposed a novel model, LTCF–Net: A Transformer–Enhanced Dual–Channel Fourier Framework for Low–Light Image Restoration. After testing six data sets, our model has a value increase of 10% compared with Retinexformer(ICCV2023).

Indoor mapping and localization of SLAM based on ROS car Apr 2024 – Dec 2024

Master's project and thesis

Deploy ORB–SLAM and RTAB–Map on the McNamm wheel mounted ROS car for robot positioning and mapping.

Image enhancement of complex underwater environment Oct 2024 – Present

The goal of image enhancement under different water depths will be completed, and the robot's visual perception ability in complex underwater will be improved.

Low–light enhancement SLAM Oct 2024 – Present

The low light enhancement module is combined with ORB–SLAM to improve the visual perception ability of the robot at night.

AWARDS

Postgraduate award

· 2024 Postgraduate Electric Competition **Second prize**

Undergraduate award

· The second Zhongging Cup mathematical Modeling Contest was the national **First prize**
· China University Computer Competition 2020 wechat Mini Program Application Development Competition **National third prize**
· China University Computer Competition 2020 wechat Mini Program Application Development Competition **First prize in Central China**
· Mathematical modeling for Chinese college students **Third prize**
· Mathematical Contest in Modeling **Third prize**

COURSE PROJECT

PROTOTYPING – Design of two–link three–degree–of–freedom manipulator

The open source robot arm is modeled after the design and controlled by arduino.

MECHATRONICS – Automated Canned Fruit Production Line

Through the combination of prototype design and PLC, the integrated assembly line of automatic filling of canned fruit is completed.

Robot Design and Implementation – Five link mechanism mechanical arm

By designing a robot arm with a five–link mechanism, it can grab and release objects at a specified location. Complete the collection of chocolate beans from the conveyor belt to the designated placement area.

LEADERSHIP EXPERIENCE

Department of the Graduate Student Union
Sep. 2023 – Present

Head of academic department

Responsible for dealing with the academic aspects of students.

Graduate class committee
Sep. 2023 – Present

Committee on life and psychology

Assist the counselor to solve the students' life and psychological problems in the class.

School Party Committee student works Department, Student Office
Sep. 2017 – Sep. 2020

School Media Center – Student Assistant

Responsible for new media related work, operate wechat public account.

College New Media Center
Sep. 2018 – Sep. 2019

Minister of new Media

Responsible for new media related work, operate wechat public account.