YUFENG WEI

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EDUCATION

Department of EEE, University of Manchester Shanghai, China
Msc in Robotics 2024 - 2025 *(expected)*
- Grade: 72.75% (Distinction)

Department of Automation, East China University of Science and Technology Shanghai, China
BEng in Automation 2019 - 2023
- GPA :3.3/4.0

PUBLICATIONS

1. **Yufeng Wei**. Review: Recent advances for the diffusion model *International Conference on Machine Learning and Automation*, 2023.

PROJECTS

Leo Rover Group Project

Equipped with a manipulator, LiDAR, and RGB camera with depth, the robot can automatically perform path finding, mapping, object detection, and object grasping and delivery. 2024.09 - 2025.07

6D Pose detection based on YOLOX-6D

The process involves modeling objects in Blender, then using BlenderProc to create a dataset. The simulated dataset, along with known camera parameters, is input into the YOLOX-6D model for training. In practical use, only a regular RGB camera is required to recognize the object's pose and location. 2025.02 - 2025.08

PLC resistance sorter

In order to achieve fully automatic sorting, PLC is used to control automatic grabbing and sorting. The resistors are grabbed using the negative pressure principle, and the resistors are blown into the corresponding sorting buckets using air jets. 2021.09 - 2022.07

WORK EXPERIENCES

Shanghai Baosight Software Co., Ltd | Shanghai, China 2023.07 - 2024.7
- Industrial production scheme design
- Meeting Report and Presentation

AWARDS AND HONORS

- **First Prize**, Internet Plus National College Student Competition 2021.07
- **Academic Scholarship**, East China University of Science and Technology 2021.09

SKILLS

Languages: Chinese, English.

Programming Language: `Python`, `C++`, `C#`.

Related Toolbox: `ROS2`, `SLAM`, `Pytorch`, `Simulink`, `Unity`, `Blender`.