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Project Overview

This wheeled robot is designed for cleaning waste and sampling in water-side environments. It can be remotely controlled and automatically follow preset routes. The target application city is Shenzhen, where there is strong demand for such environmental monitoring robots, and this project has promising development potential in the future

Current Functions

1. Mobile remote control: Operated via mobile phone program. The robot car can move forward and backward.
2. Robotic arm grasping: The mechanical arm is controlled to grab garbage.
3. Line tracking: The robot tracks paths along yellow lines and red lines.
4. Multi-sensor real-time monitoring: Equipped with temperature, humidity and slope sensors. It measures related data during operation to ensure stable working status.

Future Upgrade Design

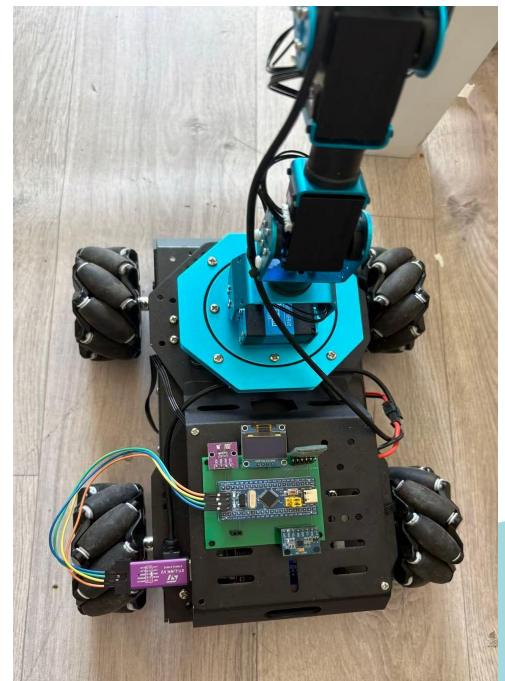
The robot will support replaceable mechanical arms to switch between two working modes:

Mode 1: Land working mode

For lakeside and non-submerged areas to collect surface rubbish.

Mode 2: Underwater sampling mode

Install waterproof mechanical arm, submerge the arm into water for sewage sampling.



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