

Design Requirements



SAFETY







MECHANISMS

Hardware Components

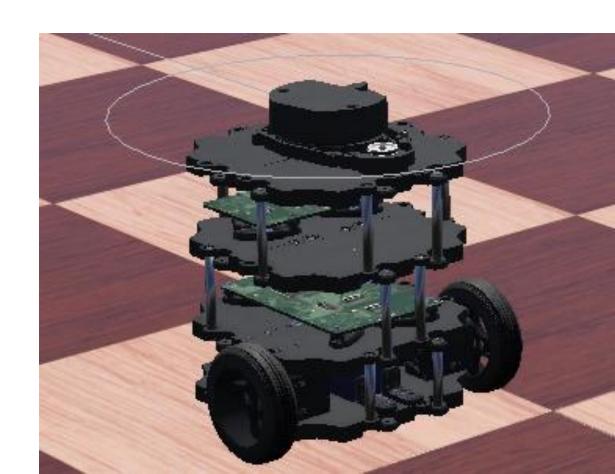
TurtleBot3

Sensor:

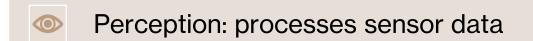
- Camera
- LiDAR

Communication:

- Wi-Fi
- MQTT



Software Architecture



Input: handle input

Control: control the robot's motion and tool/sensor operations.

Safety Monitoring: environmental conditions and robot status

User Interface: web-based interface for teleoperation

Teleoperation Mechanism

