

Smart Floor Cleaner Robot

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Abstract: *The Smart Floor Cleaner Robot is an automated cleaning system designed to make household cleaning easier and more efficient. This robot uses sensors to detect obstacles and navigate around furniture while cleaning the floor. It can sweep and mop surfaces with minimal human effort, saving time and energy. The system is designed to work on different types of floors such as tiles and marble. It operates using a rechargeable battery and follows a simple control mechanism for smooth movement. The Smart Floor Cleaner Robot is cost-effective, user-friendly, and suitable for modern homes and small offices. The Smart Floor Cleaner Robot is an automatic device designed for easy and efficient floor cleaning. It is a part of home automation technology, which helps perform household tasks automatically. The robot uses obstacle detection with the help of infrared and ultrasonic sensors to avoid objects while moving. A microcontroller acts as the brain of the system and controls all functions. It works as an automatic cleaning system that performs sweeping and mopping. Being a battery-operated robot, it uses path navigation to clean floors effectively*

Keywords: Smart Floor Cleaner Robot, Home Automation, Obstacle Detection, Infrared Sensors, Ultrasonic Sensors, Microcontroller, Automatic Cleaning System, Sweeping and Mopping, Battery Operated Robot, Path Navigation

