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Topic: - Cleaning bot embedded autonomous air suction system

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• Abstract:

This abstract describes a cutting-edge remote-control hoover cleaner robot that will transform how we approach cleaning our homes. The flexibility and control of manual cleaning are combined with the convenience of conventional robotic hoover cleaners. This intelligent cleaning solution provides an effective and user-friendly cleaning experience since it is outfitted with cutting-edge sensors, and suction capabilities. The remote control hoover cleaner robot has several key functions, such as obstacle recognition and avoidance, which let the robot to go around furniture, items, and different house layouts without damaging them or becoming stuck.

• Keywords:

Sensors – Devices that detect and respond to physical or environmental changes.

Arduino - Arduino boards are microcontroller-based development boards that can be programmed to sense and control physical objects and interact with various electronic components.

Timely monitoring- the practice of regularly and promptly observing, tracking, and assessing activities, events, or processes at specific intervals or predetermined time intervals.

Real-time update- continuous and seamless delivery of data or information in real-time, providing users with the most current and up-to-date information available.

Smart home automation- integration of advanced technologies and devices within a home to enhance comfort, convenience, security, and energy efficiency

IoT- Internet of Things, it refers to a network of interconnected physical devices, vehicles, buildings, and other objects embedded with sensors, software, and network connectivity that enables them to collect and exchange data.