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(57) Abstract :
 ABSTRACT INSTINCTIVE WALL PAINTING ROBOT The battery is the power source for the system. The motors are used to move the instinctive wall-painting bot. A motor driver IC is an integrated circuit chip used to control motors. The spray part is equipped with a spray gun and a gear motor. Painting technique. The base consists of a wooden box supported by four mechanical wheels. The robot uses a sprayer connected to a tank full of paint. The robot itself adjusted itself against the walls using an ultrasonic sensor, a single-stage elevator that carries the paint sprayer and moves it up and down with the help of a DC motor placed on top of the wooden box. The lift motor pulls the rope attached to the load through a pulley to raise the sprayer. The lift also consists of an ultrasonic sensor at the front of the sprayer to detect and maintain a constant distance between the front wall and the robot. The system that automatically scans the wall and calculates both the area and the required estimation of paint for it. The horizontal and vertical arms are fixed with the DC motors for the movement of arms which is attached with a paint gun. By image processing, the wall to be painted is been scanned and the distance also calculated. The paint container is fitted with a sensor to detect the viscosity of the paint and also to check the availability of the paint in the container.

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