

Obstacle Avoiding Vacuum Cleaner Robot

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Abstract: *Nowadays, technologies are upgrading day by day. Robots are taking the place of human beings for making work simpler and time- efficient. Due to which they are getting more attention in the field of research. As we all know Health is Wealth, hence hygiene is a major part of everyone's life and floor cleaning is also one of the important parts of hygiene. To keep ourselves healthy, hygiene is required. The main purpose behind designing of cleaning robot is to make the life of mankind happy, easy and comfortable by consuming manpower. The autonomous robotic vacuum cleaner is an automatic and programmed device to clean the surface with the help of a mop and vacuum cleaner. This is the robot that automatically cleans the dirty surface by using a set of commands given by the user through the smartphone. This cleaning robot includes two different types of cleaning. i.e mopping(wet mopping) and cleaning with the help of a vacuum. The microcontroller and wifi module are the main component. The wifi module is responsible to exchange the commands to the microcontroller. The device is operated by using three different modes, which will present in the App. 1.Manual mode, 2Automatic mode, and 3.Timer mode, respectively..*

Keywords: Node MCU, Timer mode, Automatic robot, Cleaning assembly, etc

