**SMART ROBOT CONTROLLING USING IOT**

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Robots are playing a vital role in today’s industrial automation and monitoring system. As technology developed these robots have increased their applications and functionality. The ongoing revolution of Internet of Things (IoT), together with the growing diffusion of robots in many activities of everyday life, makes IoT-aided robotics applications a tangible reality of our upcoming future. The present home secure robots are designed to video monitoring, capturing the image, also sends alerts to the owner by using Internet in case of any trespass and raises an alarm optionally. However the locomotion of the robot can be controlled only by using remote control or it can be controlled using Bluetooth technology within short distance.

In this proposed project a robot is designed with all the features of a home security such as monitoring, snapshot, tracking moving objects and also the 4 different gestures of the robots, i.e., forward, backward, left, right movement can be controlled by using a mobile application from anywhere using IoT. The application is designed such a way that it can provide a live streaming of the home, can capture a picture or video from the live capturing through your mobile device also if the robot finds an intruder it sends an alert to the mobile so that the user can send a voice message in order to avoid theft.

The smart robot can be designed and controlled using an application running on an android phone. Hardware requirements for this project are advanced surveillance camera, Raspberry pi kit, 4 DC motors, mobile application, and IoT devices. Software requirements are eclipse and Android developer software.

