

Surveillance Robot

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Abstract: *Security is always become a basic necessity in remote areas. It is not always possible for the police to patrol all the areas and a watch man to secure the premises all the time. In this scenario having the best security system makes life safer and more comfortable. The system uses GPS and GSM for securing any premises. The robotic vehicle will keep on detecting the sound and if any sound is detected, it moves towards the sound. It then takes pictures of the area using four ESP32 camera modules covering 360-degree view and transmits the images of that area to the preassigned Gmail ID and the location information through GPS is sent as an SMS alert to the effected person pre- defined number in terms of latitude and longitude with the help of GSM. A Buzzer is also interfaced to robot which make alert sound whenever it detects any sound from surroundings. Thus, we put forward a fully autonomous robot that operates tirelessly and patrols large areas on its own to secure the facility. It also acts as a surveillance system which reduces the human work.*

Keywords: LM393 Sound Sensors, GSM, GPS, ESP32 Camera, Buzzer.

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