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Content

IoT Based Home Thief Movement Detection and Alerting System Using GSM Technology

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Abstract. Smart home which indicates the automation of daily tasks with electrical appliances used in homes.This could the control of lights or giving alarm alertness. Home security has changed a lot and will be changing in upcoming years. Security is an important feature in smart home application. The new concept of smart home offers a comfortable and safe environment for occupants' Conventional security system keep home owners and their property safe by giving indication through alarm. However, a smart home security system offers much more benefits. This project mainly focuses on the security of a home when the user is away from the place. Two systems are proposed, one is based on Global system for mobile communication (GSM) technology and the other is web camera to detect the thief. The first security system uses camera range and software installed on the PC and it uses internet for communication and in case if the moment of thief found in front of the camera range then it gives information to the user via internet and it gives a sound alert through alarm. In this case we couldn't found the thief when the owner is at outside. So, this disadvantage is overcome by using smart home security system. If the owner at the outside the device sends SMS to the emergency number which is provided by the system. One more advantage is we will use IR activation device for protect us from thief. If the owner is staying inside of his house,at that time the owner will observing thief moment with the help of camera at sensor site. And he will confirm whether he/she known to him or not.

Keywords: Energy Consumption, ARDUINO, IOT Cloud Services