Abstract

This research describes a low cost and flexible security system which is basically based on Arduino with necessary interface to enable Internet and the control of power through Global System for Mobile Communication (GSM) & Bluetooth module (HC-05). This paper consumed more real life interactions along with embedded software solutions. In this project a password is set for the access of all sensors, for this we use LCD Display and Keypad. Motion sensor, gas module, reed sensor, laser sensor, all the sensors are used to detect theft and unwanted occurrences. Control Panel Interface of Web Server and android voice control both are created to control of all lights of the organization and for the purpose of power savings. The proposed system requires minimum human intervention to control the system. This research ensures the safety of organization from unwanted occurrence and theft. The main contribution of this paper is that it not only helps to ensure the security of an organization but also energy efficient and time saving.

2. Li Da Zu” Internet of Things in Industries: A Survey” IEEE Transactions on Industrial Informatics, vol. 10, no. 4, November 2014


**Index Terms**

Computer Science  
Security

**Keywords**

IoT, Arduino Mega, GSM module, SMS, Android, Smartphone, PIR, Gas sensor.