SMART HOME SECURITY SOLUTIONS BASED ON INTERNET OF THINGS

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PREFACE

In current world the usage of sophisticated security systems is going up year by year due increased rate of crime. There are different types of surveillance systems available in the market to detect the intrusion at homes, offices and critical centers. As there is lot of advancement in the technology, solution can be built with minimum hardware and with important features. In this project internet of things platform is chosen to develop a low cost high performance intrusion detection system. Infrared sensor is used to detect the human by measuring incoming infrared energy emitted from the human body. Flame sensor is used to monitor the temperature of the home when highly raised. This project also covers motion based notification of intrusion at home. The user can monitor his home from remote location based on the triggers (SMS and Email) generated from this product. A webpage is also developed in order to control the sensors. It also includes face detection at the entry of the door to unlock for a known visitor and to notify the user otherwise. This product is built on low cost hardware platform with open source cloud platform to reduce the cost of product.

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