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Anti-Breach Door Lock Security System

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ABSTRACT

One of the most important concerns in the modern-day world, be it for homes or businesses is security. This article provides the information of Anti-breach door lock security system for homes or business places to avoid threat.

Keywords—IoT system, raspberry pi, Home security

I. INTRODUCTION

This paper focuses on addressing, Home and business security concerns by the providing a breach detection solution using Raspberry Pi, piezo electric disk Sensors, high power solenoid actuators and a micro camera. The Raspberry Pi is a small-sized computer (almost the size of a credit-card) that has the ability to plug into a computer monitor or any other display and can be connected to a keyboard and mouse for operation. Raspberry Pi has the possibilities to be connected either on an external monitor or TV and of course it is connected to the internet.

It is also capable of Image processing process such as video tracking or face recognition require a camera. Homicide is therefore a problem that is very countryspecific. In many countries in the world, homicide rates are very low. But for some, homicides can be a common occurrence.

II. METHODOLOGY

The implementation of this security system allows communicating with the users in any action of threat or breach occurs. The wireless communication acts along with IoT system to indicate the activities. The security system indicate the threat though IoT base platform.

III. LITERATURE SURVEY

TITLE: Door Lock Security Systems.

AUTHOR: Pradnya R. Nehete, J. P. Chaudhari.

DESCRIPTION: Door lock security systems are classified based on technology used as

- 1) Password based,
- 2) Biometric based,
- 3) GSM based,
- 4) smart card based,
- 5) RFID based,
- 6) Door phone based,

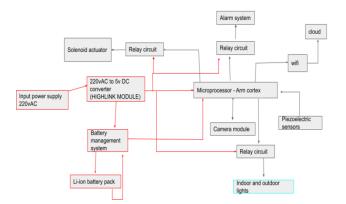
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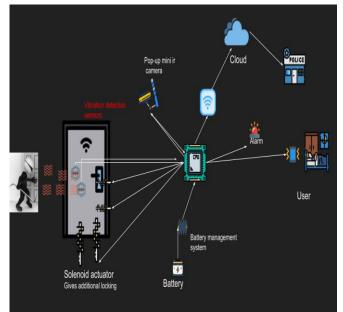
- 7) Bluetooth based,
- 8) Social networking sites based,
- 9) OTP based,
- 10) Motion detector based,
- 11) VB based,
- 12) Combined system.

TITLE: Social networking sites based security system. **AUTHOR:** S. R. Pachpande, K. P. Rane

DESCRIPTION: Security represents protection of our life and assets. Ensuring safety of peoples and their valuable things is very important for the prevention of illegal handling. Hence, mainly focusing on door lock security or gate security is very important to avoid the further problems in monitored area [2]. Even with the use of mechanical locks, the crime, robberies get happened due to the fact that such locks were easily broken. So, there is a need to invent other kind of locks which cannot be easily broken. So, many authors present different kinds of digital door locks, automatic password based door locks, software based door locks etc. which have been widely used in houses and offices.



A dialing up to the sets over the hands free telephone is created by the framework at the entryway. Visitors enter inside through the gate by controlling the gate with the help of the telephone set. The latest system is based on video door phone surveillance which is used to identify the visitors, developed by Chau-Huang Wei et. Al. For detecting obstacles, the system requires various sensors. It gathers data from the sensors and settles on a choice. With the help of GSM module, sends SMS to a respective number. A recently created model for security of door [13] easily controlled like remote control operations by a GSM hand set acts as the transmitter and the other GSM phone set with the DTMF associated with the motor attached to door with the use of DTMF decoder, a stepper motor and microcontroller unit.



IV.CONCLUSION

In today's technologically advanced world, autonomous systems are gaining rapid popularity so the advancement in latest technology is continuously and rapidly made on different latest automatic door lock security systems. The need for an advanced door lock security systems using new technologies is increases day by day as security become a very important or serious issue for everybody. Due to the recent trends in various methods of security for home, buildings, companies" vehicles etc, there is no need to worry about this security any longer, as automatic security systems are here to deal with it. This paper tries to focus all recent door lock security systems in a comprehensive way.



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