

ProLock

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CHAPTER 1

1.0 PRODUCT DESCRIPTION

1.1 Introduction

Rapid growth in Technology making the world a global village has gone a long way to protect lives and properties. Nevertheless, this growth in technology has brought much development as well as an increasing rate of crime, attacks by thieves, vandals and intruders. This therefore calls for the need of improving the modern security systems in homes, offices and other buildings for the protection of lives. Nowadays, the door home is not just about keeping the bad guys out but also letting the right people in your family, friend and even favourite services provider. With the prolock system, people inside the bulding are always in control of their front door, no matter where they are, right from their smartphone. Prolock system have been equipped by several advance futuristic future like smart phone application and face recognition with additional some existing feature such fingerprint sensor and Wi-Fi built sensor. The Prolock is easy to install which can simply attach with existing deadbolt, on the inside and outside of door.

1.2 Purpose of development

The purpose of the Prolock system are to enhance a cheap and effective security systems for homes. It is also aimed at experimenting the efficiency, effectiveness and the reliability of the electronic devices as locks. In addition, the Prolock system can prevent the unauthorized people from accessing homes and properties by their futuristic feature.

1.3 Product Concept

- The design of a simple electronic lock system will be enhanced so as to ensure a good security of homes and properties
- uses Prolocks for the security of life and properties for most offices and homes, which has greatly reduced the rate of crime, thieves and intruders

1.4 Application

System advance in Prolock comes with a host of futuristic features, easy to use and difficult to stole and broken down. In general, the prolock system have two unique futuristic feature which is smartphone application and face recognition and two existing feature which is fingerprint sensor and Wi-Fi built in sensor.

1.4.1 Functions

- Android base Smartphone application Lock and unlock your door, control keyless access and keep track of who comes and goes from anywhere
- face recognition sensor The image is captured by the web camera and it gets matched with the image stored in the database
- Fingerprint sensor Basically, fingerprint locks operate by scanning and converting your fingerprint data into a numerical template and the fingerprint template is saved.
- Wi-Fi connectivity With a Bluetooth and Wi-Fi connectivity, the door will be locked and unlock via smartphone application.

1.5 Unique features

1.5.1 Smartphone application of Prolock:

ProLock system with technology android base smartphone application can lock and unlock door, control keyless access and keep track of who comes and goes from anywhere. Smartphone application also has Auto-Unlock that detect your arriving and unlocks the door as you approach via Wi-Fi connectivity. In addition, its enable Auto-Lock to make sure the door always lock. Auto-Lock can be set on a timer for as short as 30 sec or as long as 30 min. Moreover, status of your door can be check by using Door Sense in android base Smart phone application. Door Sense will notify if the door is securely closed and locked.