### **Microtronics technologies**

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For more Project details visit:

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http://www.projectsof8051.com/password-based-door-locking-system/

	Code	Project Title	
	1105	Password Based Door Locking	
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# Synopsis for Password Based Door Locking System

### **<u>1. Introduction</u>**

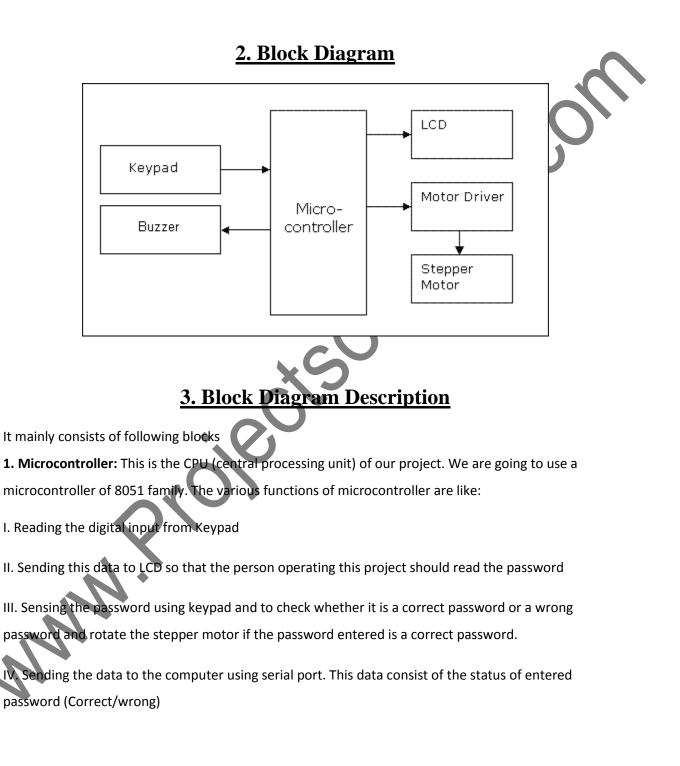
Many times we forgot to carry the key of our home. Or sometimes we come out of our home and door latch closes by mistake. In these cases it is really difficult to get inside the house. This project is designed to solve this purpose. Main concept behind this project is of a door-latch opening using a password entered through keypad. As well as turning on the Buzzer when password is entered wrong for multiple times. User can change this password anytime he/she wish using a keypad.

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**2. LCD:** We are going to use 16x2 alphanumeric Liquid Crystal Display (LCD) which means it can display alphabets along with numbers on 2 lines each containing 16 characters.

3. Buzzer: We are going to use a buzzer to indicate the wrong password to open the door.

4. Keypad: User will enter the password using the keypad. Various keys of keypad are as following,

I. 0 to 9 II. Enter III. Escape

### Application and Advantage:

1. Can be used in various rooms like seminar hall, conference room, and study rooms in college.

2. The project (password detector) can be used to automate the door locking process, so the user need not to carry the door lock keys along with him, he can just remember the password and use it later to open the door

### **Future Development:**

1. We can send this data to a remote location using mobile or internet

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2. We can implement other related modules like fire sensor, wind sensor.