The nocLock

Project Proposal

The nocLock incorporates all the requirements needed for this projects and creates an innovative new approach to security solutions and access control. Have you ever needed to open a door or lock and found yourself with your hands full, avoid putting down the groceries and Imagine having the ability to open the lock with a secret knock. Know imagine having the availability to add this concept to any type of lock “ car door, windows, safe, etc.” In this project we will create just that a compact module that can be adapted or used on many locking applications.

This knocking approach will allow the user to set up a secret knock that can then be used to unlock the there lock. Using a microcontroller as the brains of the design, we will use a piezo element as a sensor mounted to the same surface as the lock. The piezo will begin listening for knocks after being initiated by (a button press or sensor); LEDs will also initiate to confirm successful or rejected operation. If correct knock is accepted a solenoid will be activated opening lock.

