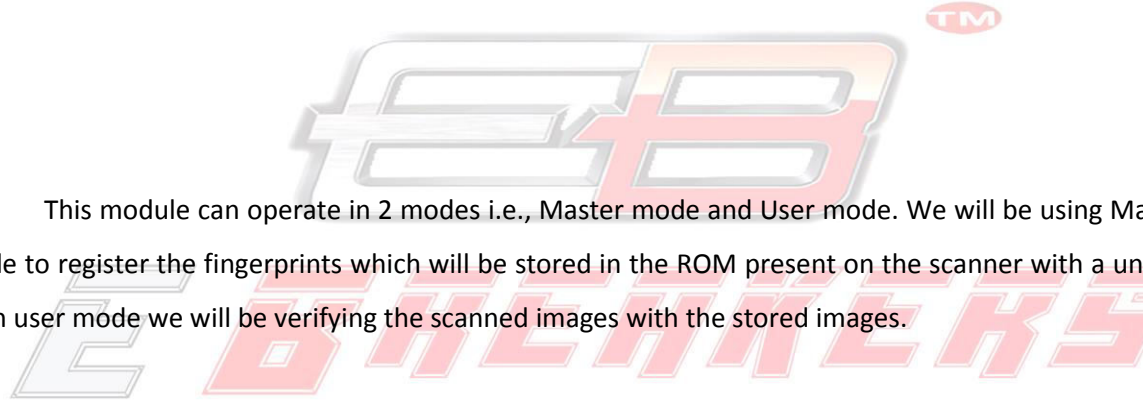


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## Finger print based elevator (lift) operating system

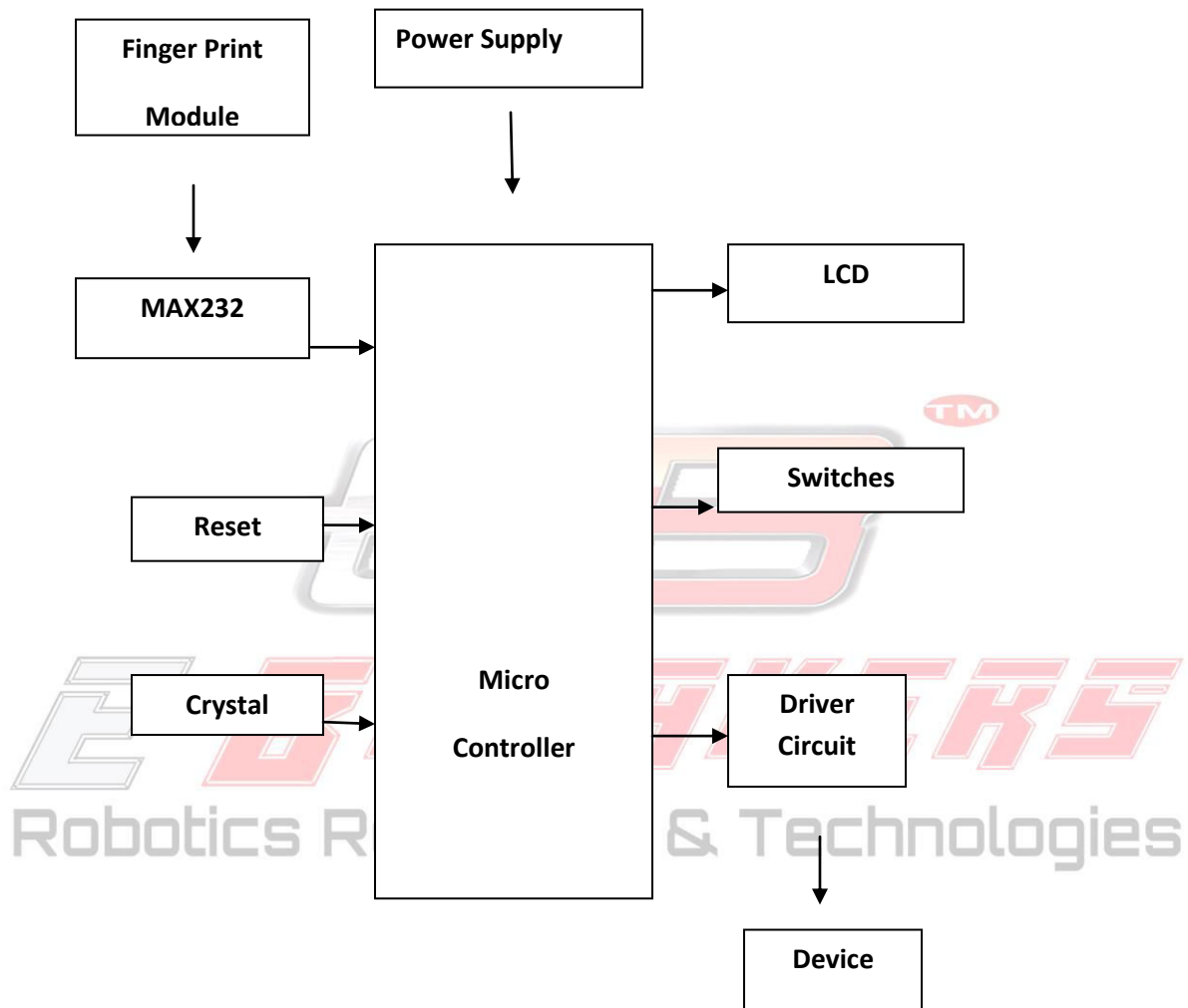
Biometrics studies commonly include fingerprint, face, iris, voice, signature and hand geometry recognition and verification. Many other modalities are in various stages of development and assessment. Among these available biometric traits Finger Print proves to be one of the best traits providing good mismatch ratio and also reliable. We can design multiple applications by integrating two different technologies viz. EMBEDDED SYSTEMS and BIOMETRICS. This Finger print based lift operating system is one those applications.



This module can operate in 2 modes i.e., Master mode and User mode. We will be using Master mode to register the fingerprints which will be stored in the ROM present on the scanner with a unique id. In user mode we will be verifying the scanned images with the stored images.

our application lift for old people in an apartment will be controlled, the images of the consulting persons belongs to apartment will be read initially in master mode. Then scanner is interfaced with microcontroller through max232 in user mode. By using this controller, we will be controlling the scanning process. After the scanning has been completed, the result is stored in the microcontroller will be compared with images stored in the module if both are matches then it allows that person to access the locker, otherwise it will never allow them. Then status of the person will be displayed on LCD.

## Block Diagram:



### Hard Ware Requirements:

- Micro controller
- Finger Print module
- MAX232

- LCD display
- Switches
- Device
- Power Supply

### Software Requirements:

- Keil Compiler
- Embedded 'C'

