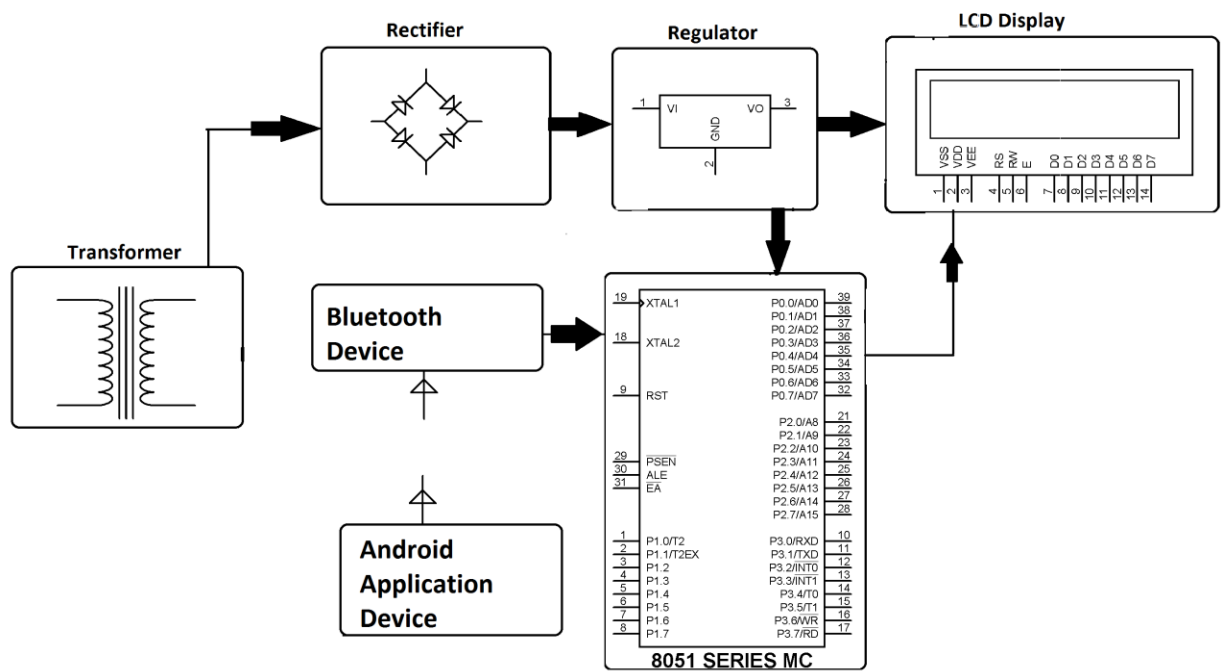# Android Controlled Notice Board Project

The project is an electronic notice board that is controlled by an android device and displays message on it. Traditionally, there were notice boards where any information or notice had to be stick daily. This becomes tedious and requires daily maintenance.

The project overcomes this problem by introducing an electronic display notice board interfaced to an android device through Bluetooth connectivity. The Bluetooth receives the message from the android device that is sent to a microcontroller of 8051 family. The microcontroller displays the message on a LCD screen. This project can be used in colleges, offices, railway stations or airports for displaying any information.

The main objective of the project is to develop a wireless notice board that displays notices when a message is sent from the user's android application device. Remote operation is achieved by any smart-phone/Tablet etc., with Android OS, upon a GUI (Graphical User Interface) based touch screen operation. While the user sends the message from the android application device, it is received and retrieved by the Bluetooth device at the display unit. It is then sent to the microcontroller that further displays the notice sent from the user on to the electronic notice board which is equipped with a 20X4 LCD display. It uses a microcontroller from 8051 family.

Block Diagram:

Rectifier

Regulator

LCD Display

VSS VDD VEE RS RW E D0 D1 D2 D3 D4 D5 D6 D7

Transformer

Bluetooth Device

Android Application Device

19	XTAL1	P0.0/AD0	39
		P0.1/AD1	38
		P0.2/AD2	37
18	XTAL2	P0.3/AD3	36
		P0.4/AD4	35
		P0.5/AD5	34
		P0.6/AD6	33
9	RST	P0.7/AD7	32

P2.0/A8 21
P2.1/A9 22
P2.2/A10 23
29 PSEN P2.3/A11 24
30 ALE P2.4/A12 25
31 EA P2.5/A13 26
P2.6/A14 27
P2.7/A15 28

1 P1.0/T2 P3.0/RXD 10
2 P1.1/T2EX P3.1/TXD 11
3 P1.2 P3.2/INT0 12
4 P1.3 P3.3/INT1 13
5 P1.4 P3.4/T0 14
6 P1.5 P3.5/T1 15
7 P1.6 P3.6/WR 16
8 P1.7 P3.7/RD 17

8051 SERIES MC

Hardware Specifications

- Micro controller unit [8051 Family]

- Regulator

- Transformer

- BLUETOOTH Device

- LCD (20×4)

- Diodes

Software Specifications

- Keil μVision IDE

- MC Programming Language: Embedded C