Major Projects Block Diagrams

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# RFID Based Automatic Car Parking System

RFID MODULE

IR MODULE ENTRY

IR MODULE EXIT

8051 BOARD

LCD

# RFID Based Security System

RFID MODULE

LCD

8051 BOARD

# Electronic Password Lock

KEYPAD

LCD

8051 BOARD

# Electronic Calculator

LCD

KEYPAD

8051 BOARD

# Microcontroller Based DC Motor Control

LCD

KEYPAD

8051 BOARD

# PWM Based DC Motor Speed Control

PCB Designed

# RF Based 4 Appliances Control

4 Channels

RELAY DRIVER

RF RX

RF TX

8051 BOARD

# DTMF Based 4 Appliances Control

4 Channels

RELAY DRIVER

DTMF MODULE

CELL PHONE

8051 BOARD

# Bi-Directional Visitor Counter

SEVEN SEGMENT 3 DIGIT

IR MODULE

IR MODULE

8051 BOARD

# PC Based DC Motor Speed Control

RS232 MODULE

PC

8051 BOARD

# Sun Tracking Solar panel using Stepper Motor

SOLAR PANNEL

ARDUINO

# Tachometer

LCD DISPLAY

MOTOR WITH FAN

IR MODULE

ARDUINO / 8051

# PC Based IC Tester for 74XX Series

ULN2003

IC SOCKET

RS232 MODULE

PC

8051 BOARD

# PC Controlled Toy Car

RF RX

RF TX

RS232 MODULE

PC

8051

# Induction Motor Direction Control using Remote

RELAY DRIVER

8051

RF RX

RF TX

# SMS Based DC Motor Start/Stop using 8051/Arduino

GSM MODULE

8051/ARDUINO

# GSM Based Notice Board Display

LCD DISPLAY

GSM MODULE

8051/ARDUINO

# RFID Based Train Gate Couch Display

2 DIGIT - 7 SEGMENT DISPLAY 1

2 DIGIT - 7 SEGMENT DISPLAY 1

2 DIGIT - 7 SEGMENT DISPLAY 1

2 DIGIT - 7 SEGMENT DISPLAY 1

RFID MODULE

ARDUINO

# RFID Based Students Attendance System

LCD DISPLAY

RFID MODULE

8051/ARDUINO

# RS232 Based Data transfer From PC to 8051

LCD DISPLAY

RS232 MODULE

PC

8051

# Arduino Based Home security System with xbee control

LCD DISPLAY

XBEE

FIRE ALARM

PIR SENSOR

ARDUINO

# Heart beat Monitoring System

LCD DISPLAY

HEARTBEAT SENSOR

ARDUINO

# GPS and GSM Based Vehicle Tracking using Arduino

PC / LAPTOP

LCD DISPLAY

GSM

GPS

ARDUINO

# Traffic Light Control using 8051

8051

# Propeller Message Display

INTERUPT IR MODULE

Propeller Setup

8 LED ARRAY

8051BOARD

# Home Automation using PC and RF Module

4 CHANNEL RELAY DRIVER

TX

RX

ATMEGA328

Switch Board

TX

PC

RX

LIGHT SENSOR

DHT11 SENSOR

SWITCH BOARD

SWITCH BOARD

Application:

1. Start up message:

Send a start up broadcast message from master with house code

All receivers will send a reply message

Master will get number of receivers in house with unit code and number of connection relays

Show all these in gui

Click on on/off in gui to turn relays on/off.

1. Modes:

Manual Control

Auto control

1. Touch screen for control
2. Remote for control
3. Control through Android mobile