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Projects collected for u!!!

by M.Siva Kameswara Rao

(sivamskr@gmail.com)

**Hi friends,**

**To get a new idea is very difficult .....**

**Unless**

**You've gone through d projects that are  
already done !!!**

**So here I go.....**

Your's

*M.siva kameswara rao.*

## List of Engineering Projects

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1. RF ID - proximity readers
2. RF ID- Access control
3. FSK based wireless security system  
ASK based wireless security system  
PIR (passive Infrared based) security system
4. 64 bit Manchester code decoder
5. contact less smart card readers
6. RF ID - Time attendance controller
7. RF ID security control system
8. Water height & Flow Analysis
9. Access control - for automobiles
10. Photo sensitive height measurement
11. PC based oscilloscope
12. FSK based data logger
13. FSK based - PC smart home
14. FSK based - Smart home
15. IR based smart home
16. Fire -smoke -heat automatic manual detector
17. Security system - GSM based
18. GSM based On / OFF controls
19. Finger print security / Attendance PC - based
20. Video door phones
21. RTC based automatic timers
22. Heart pulse rate detector
23. Digital thermometer using DS 1602
24. Automatic path finder
25. Point of sale systems
26. Mini thermal printer interface card
27. Mini Dot matrix printer interface card with PC
28. Digital Dot matrix display
29. 16 X 2 Dot matrix display controller ( ASCII)
30. BARCODE ID / library management
31. Missing pet identifier
32. Rotating device feed base control system
33. TCP/IP to RS 232 communication
34. RS 232 to TCP/IP communication
35. RS 232 to Parallel communication
36. Parallel to serial communication
37. RS 232 /serial port splitter
38. Digital height measurement

39. Remote switching using 8051
  - ON/OFF control at any point
  - Using MCS51 series Micro-Controller & telephone line
40. Data acquisition system using Micro-Controller 89C51 & PC Temperature, Pressure, Voltage, Current level etc.
41. 89c51 mc programmer
42. 89c2051mc programmer
43. EPROM programmer EPROM / flash ROM copier
44. Flash Drive Semiconductor drive using serial interface
45. Home Security systems wired
46. Home security system wire less
47. Auto testing equipment for Dc power supplies
48. AC voltage regulator using micro controller
49. Water level control system using micro controller
50. Mode lock security for different software's using micro controller
51. PC Interacted Dot Matrix , LCD Display using micro controller
52. Electronic Weighing scale using micro controller
53. PC to PC Communication wire less using micro controller
54. Stepper motor controller using PC
55. Stepper motor controller using micro controller
56. PC Interface ON/OFF controllers using micro controller
57. Flash Card Reader using micro controller
58. Moving Display using micro controller
59. Data Logger using micro controller
60. Digital Speed Controller using micro controller
61. Digital speedometer using micro controller
62. Synchronous Timer ( Simultaneous Display) using micro controller
63. Dot matrix printers as an electronics Type writer using micro controller
64. Flash card door security using micro controller
65. Infrared Based ON/OFF Controls using micro controller
66. Digital timer using micro controller & RTC
67. Password security for door locks using micro controller & EEPROM
68. Caller ID using micro controller
69. Bank token display using micro controller
70. Queless System using micro controller
71. Traffic Signal lights with digital display using micro controller
72. Lift control system using micro controller
73. Calculator using micro controller
74. Maximum Speed / Time recorder using micro controller
75. Wireless Key-Board using micro controller
76. Automatic Railway Gates ON/ OFF Control System using micro controller
77. Automatic Vehicle Speed Control System using micro controller
78. Satellite Signal Tracing System using micro controller
79. Solar Panel Control System using micro controller
80. IVRS (Interactive voice response system) using hardware & micro controller

81. Dotmatrix printer serial to parallel converter using micro controller
82. Printer interface tester with out using PC
83. Digital telegram transmitter/receiver using micro controller
84. LCD as a monitor using micro controller
85. Higher KVA Transformer Protector against High Voltage, Low Frequency, High temperature, High load current Micro Controller Based
86. Higher KVA Transformer Protector against High Voltage, Low Frequency, High temperature, High load current With data acquisition -Micro Controller Based
87. Power distribution line fault analyzer with data logger (Power line cuts, voltage analysis)-Micro Controller Based
88. Power Saver using Micro Controller (Both Time & Voltage mode of Control
89. Power Analyzer among different distribution units - using Micro Controller
90. Transmission loss analyzer - using Micro Controller
91. Voltage, current, power, data analyzer cum back up drive
92. Fault analyzer using micro controller & PC with area map
93. Pre paid power analyzer
94. Energy meter seal broken indicator
95. Level Measurement using ADC and Micro controller.
96. Speed Measurement using Micro controller and Optional encoder
97. Temperature Measurement using DS1620(Without Sensors)
98. Passive infrared sensors for human body detection
99. Vibration sensing (Piezo electric method)
100. Wireless Key-Board using micro controller
101. PC to PC communication (IR based)
102. Speed and direction control of stepper motor (IR based & Remote).
103. RFID Proximity reader and Access control (Relay)
104. Smart card reader with access control / without access control
105. Password security for door locks using micro controller & EEPROM
106. Sound intensity level detection using Micro controller
107. Turbidity measurement
108. PC based smart home
109. Traffic Signal lights using micro controller
110. Automatic Railway gates on/off control system using micro controller
111. Protocols b/w RTC & Micro controller
112. Protocols b/w EEPROM & Micro controller
113. Protocols b/w DS1620 & Micro controller
114. Bit Manchester code decoder
115. Auto timer
116. RFID-door authentication
117. Smartcard based authentication
118. GSM based on/off control
119. IR based on/off control
120. Auto Dim & Dip controls
121. Over Voltage & under voltage Protection using ADC & Microcontroller
122. Over power protection using ADC & Micro controller

123. Temperature protection using ADC & Micro controller
124. Frequency protection using ADC & Micro controller
125. Line fault analyzer using ADC & Micro controller
126. Stepper motor direction & Speed control using Micro controller
127. A.C voltage regulator using Micro controller
128. IR based on/off control (Triac based)
129. GSM based smart home
130. Digital Power saver time based
131. Digital Power saver Voltage based
  
132. Transformer internal Arcing identification
133. Water tank auto control
134. Closed loop control system for voltage regulation (Micro controller)
135. Auto obstruction detection for electrical bikes, cars etc.,
136. Auto dim & dip controls with different modes
137. Unit commitment using Dynamic Programming.

### **Analog & Digital Electronics and Electrical Based Projects**

- 1 Design and implementation of control mechanism for standby power reduction in home appliances
- 2 Embedded system based energy conservation system using PIR
- 3 Atmospheric temperature recording with time using LM35 and RTC
- 4 RTC interfaced Programmable Auto-scheduler for multiple machines
- 5 Obstacle Detection system for Vehicle with Annunciation
- 6 Humidity and temperature process monitoring on chemical lab
- 7 PCI based stand alone digital code locking system for access control
- 8 Electronic safety assistant for Blind
- 9 Remote Tank Level (Hi-lo) Signal Indicator And Control
- 10 Illumination Brightness control using PWM technique
- 11 Precise and rapid multi channel temperature monitoring and control
- 12 In system programmable embedded versatile collage bell
- 13 Energy-saver (anti-sweat heater) switch for refrigerator
- 14 Automatic random timer for home appliances based on PCI
- 15 Inter-city street lighting automation and control using RTC
- 16 An autonomous automatic photovoltaic (solar) drip system
- 17 Multi-sensor fire detector with voice alert and reduced false performance
- 18 Drunken driver indicator using passive alcohol sensor
- 19 Resident-detection and automation of home using PIR by PIC microcontroller
- 20 An innovative parking guidance system using ultrasonic technology
- 21 Setting of variable speed limit and alert system for vehicle
- 22 Auto digital-speed indicator with speed control
- 23 Vehicle parking and securing system including a strobe light confirmation
- 24 Industrial implementation based fire monitoring with alarm
- 25 Multiple temperature monitoring & control with usage of precise LM35 sensors

- 26 Embedded system based door security system
- 27 AN12C network protocol for environmental monitoring
- 28 Embedded system based ultrasonic range finder
- 29 Hi-fi motion detection security system based on electric infrared (PIR) sensor
- 30 Embedded system based IR switch board for modern house
- 31 Embedded system based attractive electronic voting machine
- 32 Multi channel temperature monitor for surgery
- 33 Automatic light brightness sensing with announcement system in vehicles
- 34 An intelligent voice system for automation of industrial process
- 35 Realization of RC 5 protocols for multiple device control
- 36 Automated fire alerter based on communication system
- 37 vehicle safety system with alcohol detector
- 38 Security for industrial with alert system using smoke sensor
- 39 Involuntary temperature level scrutinizing and controlling system for industrial boiler
- 40 Automatic room light controller with visitor counter
  
- 41 Digital code locking implementation for electrical devices on embedded platform
- 42 Auto power theft detection and method invention using an embedded system
- 43 Transformer monitoring system (TMS) & protection
- 44 An adaptive power measurement to predict over load protection system with indication.
- 45 Embedded based substation monitoring with control with announcement
- 46 Motor monitoring & self-protection system with overrides
- 47 Implementation of class-D chopper to predict dc motor speed control
- 48 Utilizing conventional solar power for automatic lighting system with programmable timer
- 49 Bidirectional open loop stepper motor speed control using 8051 microcontroller
- 50 Low cost precision digital energy meter and cost indicator
- 51 Ac mains frequency indicator using capture comparator module on PCI
- 52 Digital energy meter with maximum demand controller
- 53 Contact less AC mains voltage detector with indication by buzzer
- 54 PWM based speed control of DC motor by using fuzzy logic
- 55 Power station automation using PCI microcontroller
- 56 Variable speed DC motor control with digital RPM
- 57 Induction motor speed monitoring and control using PWM technique
- 58 Servo motor speed controller with feedback based on embedded platform
- 59 Automatic change over for generators
- 60 Multi process monitoring system (N,T,V,I)
- 61 DC motor speed scrutinizing and controlling using Thyristor
- 62 Exploitation of pulse width modulation for DC motor speed control
- 63 Electrical substation scrutinizing and controlling device for remote area
- 64 Transformer industrial parameters management control system and intimation to electricity board



- 65 Automatic energy calculation and billing system to EB
- 66 An intelligent temperature controlled radiating fan
- 67 Automatic washbasin system by object detection
- 68 An Anti-theft alarm for motorcycle
- 69 Automatic humidity control for refrigerator
- 70 Humidification for textile industries based on P2367-linear humidity sensor
- 71 Automatic room power controller (APC) Based on PWM pulse
- 72 Embedded system based automatic temperature controller
- 73 Embedded system based digital speed control of dc motor
- 74 Embedded system based intelligent electronic hardware lock
- 75 Object detection using ultrasonic waves
- 76 Embedded system based power failure monitoring
- 77 Token number display for banks by using embedded system technology
- 78 12C based multi zone thermal monitoring and control
- 79 Embedded based automatic auditorium controller
- 80 Attendance system for industries
- 81 AC motor parameter monitoring system
- 82 Embedded based digital room attendance system enquiry
- 83 Design and implementation of programmable priority time switch
- 84 12C (synchronous based) master-slave protocol implementation by 8051 microcontrollers
- 85 High precision height measurement technology using ultrasonic system
- 86 Precise digital depth measurement by using PIC
  
- 87 Vehicle speed, temperature, total distance traveled and fuel monitoring system
- 88 Proximity sensor based Opto-isolator interfaced tachometer with digital clock
- 89 DC motor parameter monitoring system
- 90 Motor protection system
- 91 16 Character commercially implement LCD Display (4-bit mode)

### **Wireless Technology Based Project**

- 1 Security integrated system based on wireless access protocol for remote monitoring & control of industrial process
- 2 wireless access monitoring and control system based on digital door lock
- 3 PCI based wireless paging using FSK techniques for remote location using LCD
- 4 Embedded system based device control by using RF wireless technology
- 5 Automated railway gate level crossing scrutinizes and control system
- 6 Wireless home automation system with programmable scheduler
- 7 Application of wireless sensor in healthcare
- 8 Embedded system based wireless attendance register
- 9 Wireless technology based electronic code locking system
- 10 Intelligent wireless electronic voting machine
- 11 advanced wireless apartment security system
- 12 Embedded system based moving message display

Projects collected for u!!! by M.Siva Kameswara Rao  
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- 13 wireless networking of smoke detector with voice alerts
- 14 Wireless communication between PC and a microcontroller
- 15 Wireless home automation using PIC
- 16 Advanced encryption and decryption standard using RF
- 17 Remote sensing and control of an irrigation system using a distributed wireless sensor network
- 18 Wireless digital code lock with a status display
- 19 Electrical apparatus control in a plant by using RF
- 20 Wireless monitoring for electrical parameters with PC
- 21 Remote motor speed controlling and activator
- 22 RF wireless multi channel electrical appliances control system
- 23 Wireless based servo motor direction and speed controller
- 24 RF communication based involuntary for substation system
- 25 Involuntary post-paid tab system for EB department through RF communication
- 26 Wireless monitoring for electrical parameters with PC
- 27 Wireless process control system
- 28 Remote speed control of DC motor

### PC Based Projects

- 1 Variable Parameter Monitoring Using RS 232 network
- 2 Attendance Management System Based on PC
- 3 Water level monitoring and control using PC
- 4 Home appliance control through PC
- 5 PC based boiler control system
- 6 PC based fire sensing system in industries
- 7 Running message display with input on PC
- 8 PC based machine shop automation
- 9 Involuntary industrial power scheduler using embedded system
- 10 Motor speed control through PC
- 11 PC based electrical parameter monitoring

\*\* ELECTRONICS RULES THE WORLD\*\*

- 12 Energy meter recording and cost indication through PC
- 13 PC based dual stepper motor driver
- 14 PC based motor management
- 15 PC based servo motor controller
- 16 Powerhouse monitor with data logger
- 17 PC based motor monitoring system

### **RFID Based Projects**

- 1 Involuntary attendance maintenance system through door access control
- 2 Voter credentials system using RFID techniques
- 3 Smart parking application using RFID technology
- 4 A RFID based material tracking information system
- 5 Performance evaluation of operational parameters on RFID controlled conveyor system
- 6 The electronic passport and feature of government issued RFID based identification
- 7 RFID based prepaid energy meter
- 8 Library management system.
- 9 Medical information system.
- 10 Production security systems
- 11 RFID based door opening and closing system.

### **Smart Card Based Projects**

- 1 Advanced wireless security system using coded cards and keyboards
- 2 Smart card based attendance marker
- 3 Smart card based door opening and closing system.
- 4 Smart card based electronic voting machine
- 5 Smart card based guard monitoring
- 6 Smart card based security and device controlling
- 7 Robust and efficient password-authentication key agreement using smart cards for campus management.
- 8 realization of prepaid bill management system for electricity board
- 9 Prepaid card for railways
- 10 Prepaid card for taxi
- 11 Smart cards based on 12C communication

### **GSM/GPS Technology Based Projects**

- 1 Remote control of industrial machines based on GSM technique
- 2 Fire detection and automatic intimation system
- 3 Electro magnetic door status scrutinize and control through SMS

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- 4 Intruder alert system in home/industrial secured place using GSM technology
- 5 Design and implementation of home automation system
- 6 PIR and GSM based home security system
- 7 Real time industrial process control and monitoring using GSM phones
- 8 Voting machine through GSM modem
- 9 Industrial monitor through GSM networks
- 10 Home automation through SMS
- 11 Bank locker security system with SMS mobile alert
- 12 GSM mobile phone based automobile security system
  
- 13 Industrial process controlling through SMS
- 14 SMS based weather reporting
- 15 Mark announcement through SMS
- 16 GPS composite clock analysis
- 17 Assisted GPS and its impact on navigation in intelligent transportation system
- 18 Patient monitoring system using GSM for hospital and old age homes
- 19 GSM based wireless home appliance monitoring and control system
- 20 GSM based power house parameters monitoring system
- 21 Electrical devices control through SMS
- 22 Electricity billing through GSM modem
- 23 SMS-based reconfigurable automatic meter reading system
- 24 GSM based automatic irrigation water controller system
- 25 Locker security system with SMS informer
- 26 SMS based single phase induction motor controller

### **GSM with GPS Technology Based Projects**

- 1 VIP tracking system by using GSM and GPS technology
- 2 Monitoring and transmission of heavy vehicles parameters using fixed cellular terminal
- 3 Railway accident monitoring system (GSM and GPS)
- 4 Vehicle identification using GPS and GSM
- 5 Accident identification using GPS and send SMS through GSM to a mobile
- 6 Accident identification using GPS and RF communication system
- 7 Live detection and tracking using GPS and send SMS through GSM to a mobile

## Telephone Based Projects

- 1 Security system with telephone line alerting
- 2 Telephone operated temperature controls system with remote control
- 3 Security system for remote access using telephone line
- 4 Telephone operated home appliance controller
- 5 Electronic eye with security dialup
- 6 Gas leakage detector and auto dialing controller system
- 7 Motor speed control through telephone line
- 8 Auto dialing facility enabled vehicle accident detection sensor
- 9 Stepper motor controller through telephone line
- 10 Telephone controlled electrical appliances

## SCADA Technology Based Projects

- 1 Boiler temperature and control system for management using SCADA
- 2 SCADA systems for distributed and substation automation
- 3 Power plant scrutinizing system using SCADA
- 4 SCADA system for turbine speed control and management in power plants
- 5 Multi-channel voltage scanner using SCADA in embedded system

## Finger Print Sensor Based Projects

- 1 Application of visual specifications for verification of distributed controllers for industrial application
- 2 Finger print based production security system
- 3 High protection ATM system with finger print identification technology
  
- 4 Finger print based door opening and closing system
- 5 Attendance marker using fingerprint sensor
- 6 Patient medical information system using finger print
- 7 Signature system on smart card with keys generated by finger print
- 8 Involuntary biometric door access control and attendance maintenance system
- 9 Finger print prediction enabled passport authentication system
- 10 Electronic library management system using finger print sensor
- 11 bio metric recognition system based digital voting machine
- 12 Finger print based banking system
- 13 Finger print based library management system
- 14 finger print based lift operation system

### Robotics Based Projects:

- 1 Robotic control through RF
- 2 Automatic path finding robot
- 3 Computer controlled mobile robot
- 4 Gas detection robot
- 5 Industrial robot
- 6 Pathfinder robot
- 7 Mini robot car
- 8 Pick and place robot with remote control
- 9 Tracers with camera
- 10 Wireless robot
- 11 Automatic fire sensing robot
- 12 The clap mobile robot

**Note:** Above projects includes Hardware kit and Training on micro controllers, assembly language

### GSM / TELEPHONE

- SMS Reader for Blind
- Telephone Controlled Remote Switch
- Telephone Controlled Generic Switching System
- Engine Monitoring Through Mobile Phones
- Voting Machine Through GSM Network
- Industrial Monitor Through GSM Networks
- Home Automation Through SMS
- Electricity Billing Through GSM Modems
- Process Controlling Using SMS
- SMS Based Weather Reporting
- Remote Appliance Control Through SMS
- GPS Navigation Monitoring Through GSM Networks
- Result Announcement System Using Telephone
- Security System For Remote Access Using Telephone Line
- DTMF Based IR Proximity Sensor
- Telephone Operated Remote Robot
- Home Appliances Controlled Through Telephone
- Telephone Operated Machine
- Machine Control & Fault Recognition through Telephone
- Data Acquisition System with GSM Modem
- Automated Metering Using GSM
- Security System Using Telephone Line
- Remote Notice Board Using GSM
- DTMF Based Remote Control
- A Mobile Based Home Automation System
- SMS Based Dc Motor Speed Controller
- Home Automation And Security System Using GSM Modem With SMS.
- SMS Based Single Phase AC Motor Controller

- SMS Based Industrial Monitor
- Call Based Home Appliance Controller
- Remote Control Of Industrial Machines Based On GSM Technique
- GSM Based Live Human Detection And Auto-Intimation
- Fire Detection And Automatic Intimation System
- Energy Scrutinizing System Using GSM
- IVRS : Industrial Machinery Control
- IVRS : Home Automation
- IVRS : Electronic Voting Machine
- IVRS : Weather Forecasting Details
- IVRS : Banking Account Status
- IVRS : Industrial Security
- IVRS : Any Security Alert System
- IVRS : Status Of Educational Student The College/School
- IVRS : Immediate Ambulance Caller
- IVRS : LPG Gas booking System
- SMS Controlled, Led Based Scrolling Message Display.

### **ROBOTICS**

- Telephone Operated Remote Robot
- Fuel/ Gas Detection Robot In Remote
- Voice Operated Robot\*
- Mobile Phone Controlled Robot
- Intelligent Gas Detection Robot
- Smart Intelligent Robot Based On IR Remote Control
- Servo Operated Robot
- Line Following Robot
- Wall Following Robot
- Fire Fighting Robot
- Robotic Car Using Touch Panel



### **MEASUREMENT & ANALYSIS**

- Industrial Wire Tensile Strength Measurement System
- Tilt Measurement Using Microcontroller
- Industrial Multisensor Data Fusion Systems
- Vibration Sensing System
- Mileage Meter
- Digital Fuel Usage Monitors
- Automatic Mileage Projector
- Automatic Vehicle Supervisor
- Accelerometer based Speed Measurement
- Surface Level Measurement
- Automatic Surface Level Adjustment with 2-steppers
- Bike/Car Suspension Analysis
- Test Ride performance Analysis for Car/Bike
- Electronic Level Bottle
- Digital Slope Measurement
- Switch Endurance Test
- Dual Axis Level Indicator.

### **FUZZY LOGIC MONITORING AND CONTROL**

- Fuzzy Logic Based Heat Exchanger With Simulation Result
- Greenhouse Control Using Fuzzy Logic
- Temperature Control System Using Fuzzy Logic
- Fuzzy Tuning For PWM Controller
- Fuzzy Based Industrial Automation
- Fuzzy overlay on the Multiple Sensing.
- Multisensor Data fusion and Fuzzy Optimization of Green house Parameter.

**COMMUNICATION (GPS, INFRARED, RF, ULTRASONIC, SERIAL)**

- Industrial Machine Control Using Infrared
- Design Of RC5 Remote Decoder Using Microcontroller
- Home Appliance Control – Home on Fingertip
- Remote Switching for Chemical Industries
- Voice Operated Home Appliance Control System\*
- Object Detection Using Ultrasonic/Sonar Sensor
- Wireless Data Logger Infrared Serial Communication
- Wireless Home Security System
- GPS GSM Based Accident Identification System For Vehicles
- GPS Based Tracking System For Automobiles
- GPS Online Tracking With GSM Modem
- Car Security System Using GPS
- Web Enabled Control Panel For Electrical Machines
- Design And Implementation RTC Based College Bell Automation
- Wireless Motor Control System (Infrared/GSM)
- Remote Power On/Off Control And Current Measurement
- Robust And Efficient Password-Authentication Using Smart Cards
- An industrial On-Line Monitoring System Based On GSM
- Wireless Bus Stop Information Provider System For Passengers
- Realization Of RC5 Protocol For Multiple Device Control
- Communication Aid For Blind And Deaf.

### AUTOMATION / INDUSTRIAL

- Object Counter For Industrial Application
- Automatic Transformer Winding Control System
- Automatic Wire Spooling Machine
- Distributed Control System
- Pick And Place Robot
- Automatic Ticketing Machine
- PC Interfaced Data Acquisition System
- Conveyer Speed Controller and Auto Stop on Object Sense.
- Scrolling Message Display
- Coil - Winding Machine
- Remote Home Security System
- Jumbo Digital Clock and Temperature Display
- Remote Industrial Security System
- Remote Data Logger Using Serial Port
- Vehicle Tracking System
- Wireless Home Appliances Controller
- Power Plant Temperature Monitoring With PC Graphical Display
- Automated Restaurant
- Canteen Automation Using Smart Card
- Digital Energy Meter With Auto Limiting Of Load
- Street Light On/Off Controller
- Modern Car Parking System
- Digital Dash Board For Cars With Speedometer, Rpm Etc.
- A Hardware/Software Environment For Real Time Data Acquisition And Control
- Metal Detection In Food Packet
- Industrial Production Line Display
- Car Black Box.

- Microcontroller Based Proportional Temperature Controller.
- Automatic Plant Watering System.
- Street Light Energy Conservation System.
- Dc Motor Speed Controlled Using Remote
- Motor Speed Monitoring & Control Using PWM Technique
- Handheld Digital Receipt System

### **BLUETOOTH**

- Home Security System With Bluetooth Technology
- Home Automation Through Bluetooth Communication
- Electric Outlets Control Based On Embedded Bluetooth Communication
- A Bluetooth Based Power Monitoring System
- An Integrated Bluetooth Automation System: An Energy Saving Solution
- Bluetooth Device Access Control And Reliable Data Transmission
- Bluetooth Based Wireless Sensing: An industrial Application
- Realization Of Home Remote Control Based On Bluetooth
- Monitoring of sensitive industrial Parameters Based On The Bluetooth
- The Emergence Of Bluetooth In Building Automation And Industrial Control
- Bluetooth Based Data Logger

### **POWER LINE COMMUNICATION**

- Addressable Remote Transmitter Through Mains Communication.
- Power line Transmission Based Hospital Management System
- Hospital Maintenance System Through Power Line
- Device Control And Data Monitoring Through Power Line
- Energy Billing Through Main Line
- Mains Line Home Automation

**GENERAL**

- CRO Based Pong Video Game
- Digital Time Table
- Microcontroller Programmer For 89Cxx and 89Sxx Controllers
- Dual Channel Digital Oscilloscope PC Based
- Digital Taxi Meter
- Dash Board Automation
- Moving Message Display
- POV Display
- Light Brightness Control Depends Upon Sunlight Intensity
- Digital Bank Token Number Display
- Multi Channel Logic Analyzer PC Based
- Voice Based Bus Recognition System For Blind
- Alcohol Detection With Vehicle Controlling
- Multifloor Car Parking System
- Touch Panel Based Calculator
- Touch To Draw Board
- Campus Navigation Using Touch Screen
- Touch Screen Based Product Profiler
- Time Totalizer For Diesel Generators
- Automatic Weather Conditioned Home Control
- Smart Car Parking System
- Smart Arrows
- Auto Fare Meter
- Sun Tracking System Using Solar Panels.
- Flight Data Recording System.
- On-Spot Billing System For Electricity Board.
- Electronic Waiter.
- Digital Audio Processor
- Pc Based Centralized Monitoring System.

**SECURITY SYSTEM, ACCESS CONTROLS****RF-ID, SMART CARD, MAGNETIC CARD, BIOMETRICS**

- Rf Card Based Security and Access Control
- Rf Card Based Billing System.
- Rf Card Based House Security System
- RF Card based Device Configuration and Locking System
- Finger Print Car Ignition System
- Finger Print Access Lock System
- Smart Card Based Automated Parking System
- RFID Based Highway Toll Collection
- Finger Print Based Attendance System
- Finger Print Based Voting Machine
- Finger Print Based Home/Office/Bank Locker Automation
- Low Cost Smartcard Ticketing System
- Biometrics Based Bank Locker Access Control
- Biometrics Based Voter Identification And Fake Vote Prevention System
- Biometrics Based Car/Home/Office Owner Identification
- Biometrics Based Home Access Control System
- Biometrics Based Car Ignition System
- Magnetic Card Based Library Management System.
- Magnetic Card Based Toll Collection System.
- Magnetic Card Based Attendance Register.
- Smart Card Based Smart Access Control System.
- Smart Card Based Conditional Access Control System.

## ENVIRONMENT & AGRICULTURAL

- Environmental Monitoring
- Rh Controller
- Multi-Zone Temperature Monitoring
- Fire Monitor Using Microcontroller
- Multi-Channel Temperature Monitor & Controller
- Microcontroller Based Auto Sprinkler For Farms
- Green House Monitoring Using MSDF Technique.
- MSDF Based Climate Monitoring Station
- Temperature and Humidity Monitoring and Control
- Food Storage System with Automatic Environment Control

*...And More To Come:*

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