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MICROCONTROLLER BASED PROJECTS

1. Artificial intelligent solar power generation
 2. A testing method for PIR detectors system
 3. A mobile - agent based distributed intelligent control system architecture for home automation
 4. A multi agent multi sensor based security system for intelligent building
 5. Industrial energy saver
 6. A novel optimum point tracker of the solar cell power supply system
 7. Train collision detection
 8. Humidity monitoring and pumping system
 9. Alcohol detection with vehicle controlling
 10. Automated restaurant for efficient maintenance
 11. RF based human movement monitoring
 12. Smoke alert system for industries
 13. Intelligent guard alert system
 14. Auto-image monitoring using CCTV camera
 15. Path planning system for blind
 16. Digital energy meter with auto limiting of load
 17. Intelligent fire detection and fighting robot
 18. Temperature level monitoring and automatic control in boiler
 19. Self guided vehicle
 20. Automated conveyor system
 21. Modern car parking system
 22. Ozone gas generator for water purifier
 23. Aeronautical collision prevention system
 24. Automated bus-stop alert for passengers
 25. Bus identification system for blind
 26. Eye blink with more explanation
 27. Wireless motor control system
 28. Chopper based dc motor controller
 29. PWM based solar tracking system with sine wave inverter
 30. PWM based single phase ac induction motor with close loop controller
 31. PWM based three phase ac induction motor with close loop controller
 32. Single axis solar panel tracking system
 33. Double axis solar panel tracking system
 34. Solar based lighting system
 35. Solar agro sprayer
 36. Coil winding machine
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BIO METRIC BASED PROJECTS

1. Finger print based medical information system for patient
 2. Finger print based door control with attendance management system
 3. PC login system using finger print recognition
 4. Secured digital voting machine using finger print recognition
 5. Finger print recognized ATM
 6. Finger print recognized passport verification
 7. Library management system
 8. Finger print based Attendance system
 9. Finger print based Voting machine
 10. Finger print based Production security system
 11. Finger print based Medical information system
 12. Finger print based Banking system
 13. Finger print based Library management system
 14. Finger print based Security system
 15. Finger print based Door opening and closing system
 16. Finger print based Lift operating system
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BIO MEDICAL BASED PROJECTS

1. Patient's BP level monitoring system
2. Automatic anesthesia controlling system
3. Automatic patient's heart beat and body temperature monitoring for remote doctor
4. Patient care and health analysis system
5. Design and implementation of a programmable apnea monitoring system
6. Microcontroller-based human brain hypothermia system
7. Portable telemedical monitoring using wireless sensors on the edge of the internet
8. powerline transmission based hospital management system with iris authentication
9. Home health care device
10. Centralized Monitoring System for Hospital
11. Hospital Networking
12. Tread Mill
13. Insulin Monitor
14. Electronic Stethoscope
15. Magneto Meter
16. Muscular Bio Simulator

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17. Pedo Meter
 18. Galvanic Skin Response System
 19. Salt Tester for Liquid Foods
 20. Radiation Dosage Rate Meter
 21. Drips Rate Monitor & Alarm
 22. Pulse Rate Monitor & Alarm
 23. Temperature and Respiration Monitor through OFC
 24. Temperature and Pulse Rate Monitor through OFC
 25. Temperature, Respiration and Pulse Rate Monitor and Alarm
 26. Four Channel Temperature Scanning for Cardiac Surgery
 27. Smart Medicare
 28. Patient Treatment Recorder
 29. Hospital Maintenance System Though Power line
 30. ECG Wave Form Transmission Through Telephone Line
 31. Hospital Connection System
 32. Nebulizer
 33. Sonography
 34. Calory Meter
 35. Tongue Pressure Sensing System
 36. Portable Computer Aided Drug Dispenser
 37. Human Gait Analyzer and Recognition
 38. Bio Feed Back System
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GSM AND MOBILE BASED PROJECTS

1. A Mobile Based Home Automation System
2. SMS Based Home Appliance Control
3. SMS Based Universal Motor Speed Controller
4. SMS Based DC Motor Speed Controller
5. SMS Based Single Phase Induction Motor Controller
6. SMS Based Three Phase Induction Motor Controller
7. SMS Based Security System
8. SMS Based Industrial Controller
9. SMS Based Industrial Monitor
10. Call Based Home Appliance Controller
11. Automatic taxi Trip Sensing and Indicating System Through GSM
12. Remote Control of industrial Machines Based on GSM Technique
13. Mine Detection for Defense using GSM
14. Railway Security Management System using GSM

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15. SMS Based Industrial Disaster Intimation System
 16. Security Breach Intimation for Unauthorized Entry Based on Mobile Technique
 17. Industrial Furnace Monitor Using Mobile System
 18. SMS Based Banking Security System
 19. Engine Monitoring through Mobile Phone
 20. Mobile Based Voting Machine
 21. SMS Based Electricity Bill
 22. Railway Accident Monitoring System
 23. Video Surveillance Recorder
 24. SMS Based Weather Report
 25. Remote Sales Terminal Networking
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RFID BASED PROJECTS

1. Secure vehicle theft detection
 2. Attendance management with door access control
 3. Bus fare pay system for passengers
 4. Medi-card for patients
 5. RFID enabled passport verification
 6. RFID enabled voter-id
 7. Security and privacy in RFID and applications in telemedicine
 8. RFID in hospitals - a case study & demonstration project in a hospital
 9. RFID based Shopping trolley
 10. RFID based Highway toll collection
 11. RFID based Reservation system
 12. RFID based ration card
 13. RFID r/w based Prepaid energy meter
 14. RFID r/w based Banking system
 15. RFID r/w based Health card
 16. RFID based Voting machine
 17. RFID r/w based Score card for industries
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ROBOTICS BASED PROJECTS

18. Industrial spy robot with image monitoring
19. Gas detection robot
20. Innovative material handling robot
21. Asset tracking via robotic location crawling
22. Localization of multiple robots with simple sensors

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23. Intelligent autonomous robots for industrial applications
 24. Navigation and mobile security system of intelligent security robot
 25. Path planning for collaborative multi-robot systems
 26. Tele operation of a robot manipulator using a human – robot interface
 27. Use of cellular phone in mobile robot voice control
 28. The design of a wheel chair mounted robot
 29. The development of intelligent home security robot
 30. Fire analyzing robot with voice feedback
 31. All surface movement robots for live human detection in earth quake areas
 32. Wireless based crane control
 33. Racing Robot
 34. Seed Sprayer
 35. Alcohol Sensing Robot
 36. Gadget Robot
 37. Laser Controlled Robot
 38. Robot for Medical Application
 39. Remote Controlled Robot
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WIRELESS BASED PROJECTS

1. Vehicle Tracking System
2. Accident Identification System
3. Wireless Camera Position System
4. Remote Home Security System
5. Wireless Voting Machine
6. Wireless Security System
7. Video Signal Transmitter
8. Audio Signal Transmitter
9. Remote Controlled Dish Antenna
10. Wireless Home Appliances Controller
11. Centralized Monitoring System for Taxies
12. Cryptographic Secured Communication Between Army Stations
13. Wireless Audio Communication System
14. Wireless Traffic Light Controller
15. Wireless Motor Monitoring System
16. Wireless Transformer Monitoring System
17. Remote Industrial Security System
18. Intelligent Wireless Controller for Oil Wells
19. Wireless Attendance Recorder
20. Wireless Process Controller
21. File Sharing Using Bluetooth
22. Simple Radar Communication System
23. Wireless Hospital Management System

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- 24. RF Based Remote Control for AC
 - 25. Wireless Code Locking
 - 26. Wireless Water Level Controller
 - 27. RF Based Scrolling Display
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COMMUNICATION BASED PROJECTS

1. Device communication using USART protocol
 2. Fire alert communication system
 3. Industrial safety alert system using LAN
 4. Network based staff caller system
 5. Secure Access Control using WEIGAND RF-ID.
 6. Network based weather Plotting system
 7. Networking enabled Industrial Automation.
 8. Embedded Networking for Industrial Monitoring and Control with VI Interface.
 9. PC-to-PC Wire less Data communication using IRLaser \ Fiber Optics
 10. Device Control and Data Monitoring through Power Line Communication.
 11. I2C Protocol implementation with RTC, EEPROM.
 12. Wireless Data transfer using RSA Data Encryption Algorithm.
 13. Two wire protocol implementation in 8051
 14. Wireless Data transfer using RSA Data Encryption Algorithm.
 15. Packed Data transfer between two CPU's using SPI Protocol.
 16. Sony IR remote protocol decoder using 8051
 17. USART protocol based device communication
 18. User data gram protocol based packet transfer with embedded control
 19. I2C based (Two wire controlled) multi peripherals accessing system
 20. I2C based Distributed Embedded system
 21. Message communication between two CPU'S using SPI Protocol
 22. RSA cryptography / Crypto analysis using 8051.
 23. Weigand protocol decoder using AT89S52 microcontroller
 24. Digital temperature monitoring system with I2C protocol
 25. Two wire protocol implementation in 8051
 26. Design and implementation of I2C protocol and RTC based college bell automation
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PC BASED PROJECTS

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