

TECHNOLOGY LEARNING CENTER

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Projects based on student innovation ideas

1. RF Based Farmer friendly Agricultural Robot with motorized shovel control System with automatic seed dispensing system
2. Automatic Intelligent Industrial Object sorter with conveyor belt arrangement for color distinguishing and object count applications
3. Wireless Mobile Charger based on induction effect principle with antitheft protection system (Wireless power transformation)
4. Search and rescue robot for victims of earthquake and other natural calamities
5. Light Search and following robot
6. Blind Person Navigation system using GPS & Voice announcement
7. Over speed & unauthorized vehicle detection using IR based speed sensors
8. Auto speed control of solar car at specified locations like school zones / hospitals / residential areas
9. Density based automatic traffic control system in metros
10. Touch screen and EEPROM smart card based ticket booking system
11. Pole climbing Robot for surveillance application with voice and image recording in SD card / Memory card
12. Intelligent helmet cop with alcohol detection to disable the engine ignition on detection of Alcoholic breath of the driver with audio alert system
13. Mobile Phone Signal Jammer Networks with Prescheduled Time Duration (Mobile Jammer)
14. RFID based toll tax system
15. RFID based electronic passport system for easy governance
16. Finger print based voting system for rigging-free governing
17. Implementation of model Radar target direction identifier with remote station alert system
18. Music transmission and reception with high S/N ratio using fiber optic communication
19. PC to Microcontroller Secured Data Communication using Fiber Optic



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communication

20. ZigBee based wireless remote weather station monitoring system
21. ZigBee based Secured Wireless Data transmission and Reception
22. Design of Intelligent SMS based Remote electricity Metering and billing System
23. A Scheme for the Application of Smart Message Language in a Wireless Meter Reading System
24. Automatic Vehicle Accident Detection and Messaging System using GSM and GPS Modems
25. SMS based Wireless electronic notice board using GSM / CDMA / 3G mobile phone
26. Hand gesture based wheel chair movement control for the disabled using (Micro Electro Mechanical Sensor) MEMS technology
27. RF Controlled Robotic Boat to Travel in Water with Wireless Video And Voice
28. RF controlled Robotic ARM With Base Rotation, Elbow And Wrist Motion With a functional Gripper on a movable wireless controlled base car for pick and place applications
29. Wireless target recognition and counter attacking robot with laser gun activation
30. Head movement controlled car driving system to assist the physically challenged
31. Mining safety – implementation of RF controlled Robotic Electronic Nose to detect dangerous gases for alerting mining workers and engineers for preventive actions – (This robotic nose can sense various odors and gases like methane, carbon monoxide, liquid petroleum gas etc - more sensitive than human nose)
32. Medicine Refrigeration for rural and flood affected areas - Fast chilling solar based refrigerator with dual mode battery charging for preserving medicines
33. Aerodynamic wind mill with reverse charge protection for rural power

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generation applications with battery voltage analyser using AT89S52 MCU (IEEE 2011)

34. Solar based E-Uniform for soldiers who work at extreme high temperature or extreme low temperature(same uniform can be used to Warm up or cool down body temp)
35. Foot step power generation system for rural energy application to run AC and DC loads Microhydel power generation system from building roof rain water flow to power AC / DC
36. loads with battery reverse charge protection (IEEE 2011)
37. Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills using 89S52 MCU
38. Super sensitive Industrial Security System with Auto dialer and 60dB loud siren
39. Electronic Notice Board with LED Dot Matrix Display and PS2 key board interfacing for user friendly message entry
40. EEPROM Based Prepaid energy meter with auto cut off on no balance
41. DTMF based Industrial automation and appliances control system for rural and agriculture applications
42. Design and implementation of maximum power tracking system by automatic control of solar panel direction according to the sun direction (Model Sunflower)
43. Digital Heart beat Rate monitoring system using AT89C51 MCU
44. Automatic Active Phase selector for single phase load from three phase supply
45. Servo controlled voltage stabilizer with higher and lower cut off
46. Automatic Power factor corrector using capacitive load banks
47. Advanced user controlled roof top antenna signal tracking system using AT89S52 MCU and 10RPM geared DC motor
48. Advanced railway track fault detection with remote station messaging system using ZigBee communication



49. Real - time atomization of agricultural environment for social modernization of indian agricultural system

Projects based on PSoC Mixed Signal Array

50. Light Intensity Based Street Light Control Using PSoC Mixed Signal Array
51. Petrochemical level indicator and controller for automation of cotton purification industries using PSOC Mixed Signal Array
52. Industrial boiler temperature monitor & controller with PSoC Mixed Signal Array
53. PC based temperature data logger using PSoC Mixed Signal Array
54. Proximity Sensor based intelligent Security system using PSoC Mixed Signal Array
55. PWM control of DC motor using PSoC Mixed Signal Array
56. RF based Wireless Industrial Device control using PSoC Mixed Signal Array
57. Auto turn off water pump with four different time slots using PSoC Mixed Signal Array
58. Design of irrigation control unit using PSoC Mixed Signal Array
59. ZigBee Based remote gas monitor system using PSoC Mixed Signal Array
60. Wireless temperature measurement & auto control based on PSoC Mixed Signal Array
61. Remote control of smart household based on DTMF using PSoC Mixed Signal Array
62. Multi point temperature data logger & display on pc by ZigBee & PSoC Mixed Signal Array Applications of MEMS in robotics and Bio-MEMS using PSoC Mixed Signal Array
63. Development of gas leak detection based on wireless technology using PSoC Mixed Signal
64. Anti theft control system design using embedded



- 65. Data transfer between PC and PSoC Mixed Signal Array using Fiber Optical Communication The temperature humidity monitoring system of soil based on wireless sensor networks using PSoC Mixed Signal Array
- 66. Implementation of high sensitive GSM signal detector with audio visual alert Indication using PSoC Mixed Signal Array

Projects based on Arduino Controller / ATmega8 / 168 / 328

Microcontroller

- 67. Mobile Phone Signal Jammer for GSM, CDMA and 3G Networks with prescheduled time Duration (Mobile Jammer) Using Arduino
- 68. Target Range Estimation using SONAR Technology using Arduino
- 69. Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills Using Arduino
- 70. Programmable temperature monitor and controller for industrial boilers & Ovens using Arduino
- 71. Arduino Based High sensitive LDR based power saver for street light control system
- 72. Wireless Patient Monitoring
- 73. Micro Controller Based Holter Monitor .
- 74. Portable Micro Controller System For Tremor Analysis
- 75. Stride Time Estimation Real Time Peak Detection Implemented On An 8 Bit Micro Controller
- 76. Arduino Based Automatic Temperature based Fan Speed Controller
- 77. Arduino Based DC Motor speed control using PWM Technique
- 78. Arduino Based Real Time Clock based industrial automation using RTC
- 79. RTC based Digital Clock with 7-segment Display with 12 / 24 hours Using Arduino



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80. Design and implementation of maximum power tracking system by automatic control of solar panel direction according to the sun direction (Model Sunflower) Using Arduino
81. Digital Heart beat Rate monitoring system Using Arduino
82. RFID security access control system Using Arduino
83. RFID based electronic passport system for easy governance Using Arduino
84. RFID based Airport Luggage security scanning system Using Arduino
85. Arduino Based Industrial appliances control system by decoding dual tone multi frequency signals on GSM / CDMA network.
86. Arduino Based PC to Microcontroller Secured Data Communication using Fiber Optic Communication
87. Implementation of high sensitive GSM signal detector with audio visual alert Indication using Arduino
88. Arduino Based Wireless DC Motor Speed & Direction Control using IR (PWM and H-Bridge)
89. Arduino Based Wireless Electrical Apparatus Control System using IR communication
90. Arduino Based Temperature Monitoring and Display on 7-segment Display
91. Bluetooth based Wireless Device control for Industrial Automation Using Arduino
92. Bluetooth based Robot Control for Metal Detection Applications Using Arduino
93. Digital control for home lighting systems with ZigBee Communication Using Arduino
94. The temperature humidity monitoring system of soil based on wireless sensor networks Using Arduino
95. Arduino Based Hand wheel chair movement control for the disabled using (Micro Electro Mechanical Sensor) MEMS technology
96. RF Controlled Robotic Boat to Travel in Water with Wireless Video and Voice Using Arduino



97. Arduino Based RF Controlled Fire Fighting Robot with high pressure water sprinkler
98. Implementation of solar water pump control with four different time slots for power saving applications Using Arduino
99. Next generation alternative energy storage application with super capacitors / ultra-capacitors with voltage analyzer using Arduino
100. Arduino Based Foot step power generation system for rural energy application to run AC and DC loads
101. Anti theft control system design using embedded
102. Solar based mobile charger for rural areas (Charge your mobile anywhere with sunlight)with battery voltage analyzer using Arduino
103. Solar highway lighting system with auto turn off on day time with LCD display using Arduino Monochrome Image Display On GLCD using Arduino
104. IR remote Based Human – computer interface mouse control for PC Using Arduino
105. LED panel to Display the user Message.

Projects based on ARM Processor ARM7 TDMI - LPC 2148

106. Implementing character LCD Device Driver development on LPC2148 ARM
107. Implementation of Data Encryption Standard on ARM(ARM7TDMI) LPC2148
108. Design of vehicle positioning system based on ARM
109. Nerve And Muscle Stimulator



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110. Implementation of Serial port device driver using ARM 7 TDMI LPC2148 Controller
111. Real time data acquisition using ARM 7 TDMI processor based LPC2148
112. Interfacing of graphical LCD to LPC2148 ARM Based 32-bit microcontroller
113. Industrial Temperature Monitoring and controlling using ARM 7 TDMI LPC2148
114. Design And Development Of Embedded Media Player Using S3c2440 And SDL_FFMPEG
115. Implementation of EEPROM Interfacing with I2C protocol using ARM 7 TDMI
116. Wireless Patient Monitoring
117. Designation And Realization Of Ship Navigation System Embedded Platform Based On ARM
118. Research On Power Quality Monitoring System Of Oil Field Based On ARM
119. Developing A Smart Camera For Gesture Recognition In Hci Applications
120. The Ecg Tele-Monitor Based On Embedded Web Server
121. Environmental Conditions Monitoring Inside Granary Based On ARM9 And Zigbee
122. License Plate Location For Vehicles Passing Through A Gate
123. Design Of Automatic Embedded Vision Authorized Vehicle Recognition System
124. A Voice-Driven Scene-Mode Recommendation Service For Portable Digital Imaging Devices
125. Design Of Embedded Real Time Car Parking System Using Image Processing
126. The Research On Zigbee Baed Mine Safety Monitoring System
127. The Electrical Ethernet Monitoring System Based On Embedded Web Server

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128. The Study On Design Speech-Control Power Point Presentation Tool Using ARM9
129. Stride Time Estimation Real Time Peak Detection Implemented On An 8 Bit Micro Controller
130. H-Bridge based DC Motor speed & Direction control using PWM using ARM 7 LPC2148
131. Design And Implementation Of Mouse Simulation Using Gestures On A Virtual Screen
132. A Paperless Fax Machine Using ARM9
133. Development Of Embedded Webserver On ARM9
134. Research And Implementation Of Embedded Face Recognition System Based On ARM9
135. Development Of Embedded Ethernet Drivers For ARM9
136. Design And Development Of Embedded Multimedia Terminal
137. A Low-Power, Low-Cost Automotive Touch Screen With Real Controls
138. Customization & Compilation Of Embedded Boot Loader (U-Boot) For ARM9
139. Design And Implementation Of Virtual Keypad In ARM9
140. Design Of Automatic Embedded Vision Of Qr Code Recognition System
141. Real Time Car Theft Decline System Using ARM Processor
142. Petrochemical Level Indicator and controller for automation of Cotton Purification industries using ARM 7 TDMI processor based LPC2148 Controller
143. Intelligent LPG / Smoke Detector with Auto dialer using ARM 7 TDMI LPC2148
144. GSM based Remote Industrial appliances control system using ARM 7 TDMI LPC2148
145. GSM based advanced transformer load sharing system using ARM 7 TDMI LPC2148



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146. GSM based automatic vehicle accident detection with GPS based location identification and messaging system using ARM 7 TDMI processor based LPC2148 Controller
147. Design Of Tablet Pc By Using Android-Os In ARM9
148. Advanced mobile phone signal jammer for GSM, CDMA and 3G networks with prescheduled time duration using ARM 7 TDMI processor based LPC2148 Controller
149. A smart ZigBee based wireless weather station monitoring system using ARM 7 TDMI processor based LPC2148 Controller
150. Implementation of ZigBee based multipoint secured PC messaging system ARM 7 TDMI processor based LPC2148 Controller
151. Biometric finger print based electronic voting system for rigging free governance using ARM 7 TDMI processor based LPC2148 Controller
152. Biometric finger print based bank locker system using ARM 7 TDMI processor LPC2148
153. Automatic photovoltaic panel direction control for maximum power tracking using ARM 7
154. TDMI processor based LPC2148 Controller
155. Auto turn off for water pump with four different time slots using ARM 7 LPC2148
156. Real-time atomization of agricultural environment for social modernization of indian agricultural system (IEEE 2010)
157. Improved structure of solar tracker with ARM7tdmi (LPC2148) based control
158. GSM-GPS integration for enhancing public transportation (IEEE 2010)
159. Remote control of smart household based on DTMF (IEEE 2010)
160. Adaptive beat to beat heart rate estimation in Ballistocardiogram (IEEE 2011)
161. A bi-directional guard system design of car based on GPS & GSM (IEEE 2010)



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162. An artificial landmark design based on mobile robot localization and navigation
163. Applications of MEMS in robotics and Bio-MEMS (IEEE 2011)
164. Development of gas leak detection and location system based on wireless technology
165. Hazardous gas detecting method applied in coal mine detection robot (IEEE 2011)
166. Monitoring and alARming system based on ZigBee Technology (IEEE 2011)
167. Research on the method of automatic obstacle avoidance robot (IEEE 2011)
168. The remote control of mobile robot based on embedded technology (IEEE 2011)
169. Data transfer between pc and LPC2148 controller using fiber optical communication
170. GSM Based Remote Monitoring Intelligent System Based on Fingerprint Door Lock using ARM7
171. GSM Based Train Reservation System using ARM7
172. Implementation of Solar Fridge with fast chilling Applications with temperature Monitoring using ARM7
173. Hand Gesture Based Wheel Chair Movement Control For The Disable With MEMS Using PWM Technique
174. Design of an Intelligent SMS based Remote Metering System Using ARM7
175. GSM Based Greenhouse Remote Monitoring System Using ARM7
176. Anti-Theft Control System Design Using ARM7
177. The Design of Tungsten Mine Environment Monitoring System Based on Wireless Sensor Networks Using ARM7
178. An RFID-Based System for Pilgrim Management Using ARM7
179. Robot Navigation System with RFID and Sensors Using ARM7
180. Design of the Smart Vehicle Control System Based on ARM7
181. Mobile operated Water Robot Using ARM7 Based LPC2148
182. The Design and Implement of Embedded Remote Control System in

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- Industrial Pick and Place Robot Based on ARM7
183. GPS Navigation system with Voice alert for blind people with user recordable locations and messages using ARM7
 184. Implementing UC/OS– II Kernel Based RTOS Using ARM7 TDMI (lpc2148) based Controller
 185. Advanced artificial eye implementation for detecting monochrome objects for industrial automation, object sorting and material separation applications with DC geared motor fitted conveyer belt arrangement using ARM7 TDMI based LPC2148
 186. Design and implementation of car driving controller system for physically handicapped Using ARM7
 187. Multi-Functional Car with Accident Alert Sensor Using ARM7
 188. Wireless Patient Health Monitoring System Using ZigBee ,RFID , GSM with wireless automatic doctor alerting through SMS Using ARM7
 189. Photovoltaic powered advanced railway track fault inspection system with remote station alert using advanced ZigBee communication with ARM 7TDMI based LPC2148 Microcontroller
 190. Solar Driven Vehicle With Drunken People Identification With Auto Ignition Disable Function Using ARM7
 191. Vehicle Identification Data Monitoring And Verification System For Traffic And RTO Using Zigbee Technology Based on ARM7
 192. Model Radar Implementation, Signal Detection And Various Frequencies Identification With Remote Station Alerting System Using ARM7
 193. Touch Screen Based Wireless Smart Home Automation System Using ARM7
 194. Implementation of High Sensitive GSM Signal Detector with Audio Visual Alert Indication Using ARM7
 195. Wireless ATM security with GSM and MEMS Using ARM7
 196. Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills Using ARM7



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- 197. Automatic Dam Gate Control System with Caution AlARM Using ARM7
- 198. Design And Implementation Of Digital Clock with 16x2 LCD Using ARM7
- 199. Embedded Rigging free Electronic Voting System with instant results Using ARM7
- 200. Embedded Quiz monitoring system with team performance evaluation Using ARM7

Bar Code Reader / RFID / Smart Card / I-Button Projects

- 201. Item-level RFID in a retail supply chain with stock-out-based substitution IEEE 2011
- 202. Designing of RFID based Sensor Solution for Packaging Surveillance Applications IEEE 2011
- 203. Improving security and usability of low cost RFID tags improving security and usability of low cost RFID tags IEEE 2011
- 204. Unveiling the Potential of RFID-Enabled Intelligent Patient Management
- 205. Using RFID for anti-theft in a Chinese electrical supply company: A cost-benefit analysis
- 206. Fast identification of the missing tags in a large RFID system IEEE 2011
- 207. RFID based attendance system
- 208. RFID based prepaid car parking system
- 209. RFID based patient information system
- 210. RFID based Electronic road pricing system
- 211. RFID based toll tax system
- 212. RFID based banking system for secured transaction
- 213. RFID security access control system
- 214. RFID based electronic passport system for easy governance
- 215. Smart card based access control system
- 216. Smart card based electronic passport system
- 217. RFID based Library Automation System



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- 218. RFID based Airport Luggage security scanning system
- 219. Electronic Passport And The Future Of Government Issued Rfid Based Identification
- 220. Rfid And Zigbee Based Manufacturing Monitoring System
- 221. Rfid Technology And Zigbee Networking In Improving Supply Chain Traceability
- 222. Smart Digital Door Lock For The Home Automation
- 223. Supermarket Shopping Guide System Based On Internet Of Things
- 224. A Sensor Network Based On Rfid Inventory For Retail Application
- 225. Security Access Control System using Bar Code Reader
- 226. Library Automation using Bar Code Reader
- 227. RFID and ZIGBEE based manufacturing monitoring system
- 228. The design and implementation of intelligent campus security tracking system based on RFID and ZIGBEE
- 229. Remote Parent Care (RFID & GSM)
- 230. Design of Smart Nodes for RFID Wireless Sensor Networks
- 231. Large Scale Active RFID System Utilizing Zigbee Networks
- 232. Vehicle Tax Pay And Access System
- 233. Fiscal Access Control System Using Smartcard
- 234. Modern Security System For Fiscal Transaction
- 235. Elegant Library Management System Using Rfid

MEMS BASED

- 236. An Embedded Speaker Module By Detecting The Hand Gestures Of A Dumb Person Using MEMs.
- 237. Hand Gesture Recognition Technology Based Wireless Surveillance Bomb Diffusing Robot With Mobile Jamming Technique Using MEMs Technology.
- 238. Mobile Human Airbag System For Fall Protection Using MEMs Sensors.



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EEPROM BASED

- 239. An embedded speaker module by detecting the voice signal of a dumb person using microphone.
- 240. Dynamic Acoustic for Interpreting the Distorted Noise Signals of the Dumb Person into a Suitable Predefined Voice Signal.

Biometrics / Finger Print Modules

- 241. Finger print based access control system
- 242. Finger print based bank locker system
- 243. Finger print based electronic passport system
- 244. Finger print based voting system for rigging-free governing
- 245. Finger print based driving license management system
- 246. Finger print based attendance system
- 247. Finger print based electrical device control system
- 248. Prepaid coffee dispenser with biometric recharge using finger print module
- 249. Color Recognition Embedded System With Augmented Reality Concept And Finger Interaction

Projects based on Microchip Controller – PIC 16F877A

- 250. Data transmission and reception from PIC 16F877A MCU to PC's hyper terminal using RS-232 communication using PIC microcontroller
- 251. Coin operated water vending machine with refrigerator temperature controller with cool / normal water dispenser using PIC microcontroller
- 252. Petrochemical level indicator and controller for automation of cotton purification process in spinning mills using PIC microcontroller
- 253. Electronic complaint record system with administrator play back using PIC



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- microcontroller. Speed and direction control of DC motor using PIC microcontroller using PWM and H – bridge
254. Real time clock based industrial automation using dallas RTC and I2C protocol using PIC
255. Design of a VoIP media stream encryption device
256. Temperature monitoring on 7-segment display using PIC MCU for industrial boilers and ovens
257. Stepper motor control using PIC microcontroller for robotic applications
258. Embedded rigging free electronic voting system with instant results using PIC microcontroller
259. Dc Defibrillation Calibration Unit
260. Nerve And Muscle Stimulator
261. Pace Maker Demonstration Unit
262. R-Wave Detection & Bpm Measurement
263. Portable Micro Controller System For Tremor Analysis
264. Password based access control system protocol using PIC microcontroller
265. Design and implementation on the intelligent management system of garage

SENSOR BASED

266. Distance Measurement By Using Ultrasonic Sensor And Automatic Speed Control Of Robots To Prevent Accidents.
267. Temperature Monitoring And Controlling By Using DC Motor.
268. A Collision Predict Based Local Path Planning of Mobile Robots with Survive Lance Camera with Audio.
269. An Automation System For Energy Saving And Accident (Fire And Gas Leakage) Detector Using Integrated Zigbee And Sensor In Big Industry.
270. Design and implementation of pyroelectric infrared



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- 271. A Network Video Device Based on Specific Target Tracking
- 272. Non-Invasive Continuous Bp Measurement
- 273. Automation Of Ration Products Distribution System
- 274. Wireless Access Monitoring and Control system based on Digital Door Lock
- 275. Sensor Network Based Oil Well Health Monitoring And Intelligent Control
- 276. Research On Method For Real Time Monitoring Dynamic Vehicle Loading Based On Multi Sensors
- 277. Route Planning And User Interface For An Advanced Intelligent Transport System
- 278. The Implementation Of Serial Communication Embedded Technology In The Vehicle Alcohol Lock
- 279. Ultrasonic Spectacles And Waist- Belt For Visually Impaired And Blind Person
- 280. An Accelerometer Based Digital Pen With A Trajectory Recognition Algorithm For Hand Written Digital And Gesture Recognition
- 281. Development Of Multi-Functional Sensor Module For Energy Saving Air Conditioner System
- 282. Remote Surveillance System For Driver Drowsiness In Real-Time Using Low-Cost Embedded Platform
- 283. Design Of Embedded Automatic Detection Of Human Faces In Uncontrolled Environments: Identification Of Direction And Movement
- 284. License Plate Location For Vehicles Passing Through A Gate
- 285. Design Of On-Line Interactive Data Acquisition And Control System For Embedded Real Time Applications
- 286. Evidence Collecting System from Car Black Boxes
- 287. Detection Of Sudden Pedestrian Crossings For Driving Assistance Systems
- 288. Design For Motion Detection System Based On Embedded Linux For Military Application
- 289. The Protection Of Water Resources Environmental
- 290. The Research Of Qt_ Embedded And Embedded Linux Application In The Intelligent Monitoring System

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291. Design Of Embedded System For Automated Road Surveillance System For Speed Violation Detection
292. Intelligent Quick Fire Detecting Alerting And Control Robot For Preventing The Further Damage Using UV And Fire Sensor.
293. Real-Time Atomization Of Agricultural Environment For Social Modernization Of Indian Agricultural System.
294. Palpatation Panel Based Automation
295. Palapatation Screen Based Driving System
296. Automatic Breaking System for Avoiding the Accidents Using Ultrasonic and PWM.
297. Innovative System For Industrial Protection Using Different Sensors.
298. Deploying Zigbee Sensor Network for Vibration Measurement.
299. Intelligence Fire Detection, Control Robot to Deviating the Direction and Stop the Fire Using Fire Sensor, Fan and Water Sprinkler.
300. Development Of An Embedded System By Using RFID Based Door Control System.
301. Wireless Measurement And Control System For Environmental Parameters In Green House.
302. Driverless Car for Avoiding Accidents with PIR and IR Sensor.
303. Microcontroller based Oximeter for undergraduate capstone Design.
304. Automatic Street light controlling system using PIR and zigbee.
305. Smart house security system using multi sensors with wireless camera.
306. Heartbeat monitoring system and Tele Alerting.
307. Distance measuring system and automatic braking system using IR sensors.
308. Solar tracking system using LDR and its application for mobile charger.
309. Conveyor Belt with Pick and place object system.
310. Room temperature controlling based on the strength using PWM Technique.
311. Automatic bottle filling system using IR sensors and stepper motor.
312. Water level indicator using electrodes.



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- 313. Solar powered vehicle with automatic obstacle avoidance system, using ultrasonic Sensor.
- 314. Fall Detection By Built-In Tri-Accelerometer Of Smartphone
- 315. Moving Bridge - This system provides the security in three ways: automatic gate Opening/closing system at bridge crossing, signaling for the bridge to close/open, and Tracking the signals.
- 316. IR based hand signs voice announcement for dumb people.
- 317. A Real-Time Wireless Brain-Computer Interface System for Drowsiness Detection.
- 318. Automatic Railway Crossing Gate Controller Using IR And RF Communication.
- 319. A Microcontroller Based IR Range Finder System with Dynamic Range Enhancement.
- 320. Material Handling (X, Y, Z Motion Control) For Lifting Heavy Objects In Industries.
- 321. Automatic Room Light Controller With Visitor Counter (IR Sensor And Light Dependent Resistor) Using AVR Micro Controller.
- 322. Bascular Moving Bridge Control System For Controlling The Bridge Gate With Out The Intervention Of Human Personnel Using IR.
- 323. Intelligent Object Counting System Using Entrance And Exit IR Sensors For General Applications.
- 324. Wireless Data Communication Through I R Led And I R Detector.
- 325. Automatic Street Light Based Power Saving System for Detecting Night Mode Using Light Dependent resistor.
- 326. Driverless Car for Avoiding Accidents with PIR and IR Sensor.
- 327. AVR Microcontroller Based Autonomous Robot Using IR Sensors For Finding The Path.
- 328. A More Efficient Energy Management System Based On Zigbee Communication And Infrared Remote Control



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- 329. Digital Control System For Modern Driverless Trains To Avoid The Train Accidents Caused By Track Removing.
- 330. Wireless Digital Fuel Indicator For Cars To Avoid Sudden Stoppage Of Vehicle.
- 331. IR Based Remote Device Switching (IR Remote) To Control External Devices Connected To The Microcontroller.

Advanced Wireless Communication System Wi-Fi / ZigBee /

Bluetooth / RF / IR

- 332. Wireless Data Encryption and Decryption for Secured Communication using RF
- 333. The Applications Of Wi-Fi Based Wireless Sensor Network In Internet Of Things And Smart Grid
- 334. An Extensible Embedded Terminal Platform For Wireless Tele-Monitoring
- 335. Research Of Intelligent Greenhouse Remote Monitor System Based On Embedded Network And Wireless Transmission Technology
- 336. The Research Of The Zigbee And Rfid Fusion Technology In The Coal Mine Safety
- 337. The Design And Implementation Of Intelligent Campus Security Tracking System Based On Rfid And Zigbee
- 338. Missile Detection And Automatic Destroy
- 339. Wireless Electrical Apparatus Control System with Speed Control of AC motor in a plant using RF communication
- 340. Wireless DC Motor Speed and Direction Control using RF Communication
- 341. Wireless Stepper Motor Control using RF Communication
- 342. Wireless Electronic Notice Board with Multi Point Receivers using RF Communication System
- 343. Developing Voice Control System For Zigbee Based Home Automation Networks

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- 344. Rfid And Zigbee Based Manufacturing Monitoring System
- 345. Infopods Zigbee-Based Remote Information Monitoring Devices
- 346. Application And Evaluation Of High Power Zigbee Based Wireless Sensor Network In Water Irrigation Control Monitoring System
- 347. Design Of Monitoring System For Coal Mine Safety Based On Wireless Sensor Network
- 348. Implementation Of Zigbee-Gsm Based Home Security Monitoring And Remote Control System
- 349. The Research On Zigbee Baed Mine Safety Monitoring System
- 350. Over Speed Identification With Zigbee And Rfid
- 351. Design Of Monitor-And- Control System Ofr Supermarket Fresh Area Based On Zigbee
- 352. Design And Development Of The Lab Remote Monitoring System Based On Embedded Web Technology
- 353. The Research On Zigbee Baed Mine Safety Monitoring System
- 354. Environmental Conditions Monitoring Inside Granary Based On ARM9 And Zigbee
- 355. Time Attendance System With Multi Station And Wireless Communications
- 356. Pen Drive To Pen Drive Data Transfer Without Pc
- 357. Design Of Reliable Transmission Protocol For Zigbee-Based
- 358. An Automation System For Energy Saving And Accident (Fire And Gas Leakage) Detector Using Integrated Zigbee And Sensor In Big Industry.
- 359. Mobile Embedded Systems For Home Care Applications Using Zigbee And RF Transmitter And Receiver.
- 360. The System Of Wireless Smart House Based On GSM And Zigbee.
- 361. Pc To Pc Communication By High S peed Secure Data Transmission Using Zigbee Technology.
- 362. Compact Zigbee Wireless Communication Based Hand Held Unit For Controlling The Robot With In 1 Km.

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363. Computer Networking For Transferring The Data Between Two Devices Located At Different Places Using Zigbee Module .
364. Deploying Zigbee Sensor Network for Vibration Measurement.
365. High Speed Data Secure Transmission And Reception From The Hackers Using Zigbee.
366. Development Of Pollution Monitoring System For Detecting Waste Gas (Co And Methane) Using Gas Sensors And Zigbee Module.
367. Low Cost Pollution Monitoring And Control System For Metropolitan Cities Using Zigbee.
368. Two-Way Wireless Data Messaging System For Rural Areas Using Zigbee Technology.
369. Wireless Network Remote Guidance System For The Blind Using Voice Board And Zigbee.
370. Wireless Communication Based Pick And Place Robot ARM Using Zigbee For Industries.
371. Wireless Data Communication Through IR Led And I R Detector.
372. Wireless Vehicle System For Tracing Path By Using IR Sensors And Zigbee Module.
373. Wireless Voice Controlled Robot Using Voice Recognition Kit (Hm2011).
374. Zigbee Based Wireless Electronic Notice Board With Multi Point Receivers.
375. Zigbee Based Wireless Remote Weather Monitoring System In Remote Areas.
376. Zigbee Based Wireless Remote Weather Station Monitoring System For Knowing Changes In Weather In Critical Places.
377. Zigbee Based Wireless Sensor Network For Sewerage Monitoring.
378. ZigBee Based Intelligent Helmet for Coal Miners.
379. Streetlight Monitoring System Based on Wireless Sensor Networks using ZigBee Communication.
380. High Power Zigbee Based Wireless Sensor Network in Water Irrigation Control Monitoring System.
381. A Smart Zigbee Based Wireless Sensor Meter System.

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- 382. High performance ZIG-BEE protocol implementation for RF communication.
- 383. Remote controllable and climate adaptive energy saving room architecture based on Zigbee.
- 384. Zigbee based vehicle access control system.
- 385. Adding new functions to the remote airfield lighting system.
- 386. Wireless temperature monitoring system based on the zigbee technology.
- 387. Design and implementation of the zigbee based body sensor network system.
- 388. Forest fire detection system based on a zigbee wireless sensor network.
- 389. Smart and Intelligent Assistance System based on Wireless Robotic Systems.
- 390. Wireless Stepper Motor Control using IR Communication
- 391. Wireless DC Motor Speed and Direction Control using IR (PWM and H-Bridge)
- 392. Wireless Electrical Apparatus Control System using IR communication
- 393. Wireless Temperature Monitoring on Remote Seven-segment Display using RF
- 394. ZigBee based Secured Wireless Data transmission and Reception
- 395. ZigBee based Wireless Electronic Notice Board with Multi Point Receivers
- 396. Two-way Wireless Data Messaging System for Rural Areas using ZigBee Technology
- 397. Bluetooth based Wireless Device control for Industrial Atomization
- 398. Bluetooth based Robot Control for Metal Detection Applications
- 399. RF based tsunami detection and remote alert system with 60dB siren
- 400. Streetlight Power Cable Monitoring System Based on Wireless Sensor Networks using ZigBee communication.
- 401. ZigBee based wireless remote weather station monitoring system
- 402. Advanced railway track fault detection with remote station messaging system using ZigBee communication
- 403. RFID and ZIGBEE based manufacturing monitoring system



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- 404. The design and implementation of intelligent campus security tracking system based on RFID and ZIGBEE
- 405. Secured data transmission and reception using Wi-Fi technology
- 406. Wireless Fetal Heartbeat Monitoring System Using ZigBee and IEEE 802.15.4 Standard
- 407. Digital control for home lighting systems with ZigBee communication
- 408. The temperature humidity monitoring system of soil based on wireless sensor networks
- 409. Over speed & unauthorized vehicle detection using IR based speed sensors
- 410. Auto speed control of solar car at specified locations like school zones / hospitals / residential areas
- 411. Density based automatic traffic control system in metros
- 412. A Remote Controlled Robotic ARM with Gripper to Lift the Weights and Place it in Required Places Using RF Technology.
- 413. Automatic speed reduction in crowded areas using stepper motor and RF communication.
- 414. RF power meter reading system for a Locked House .
- 415. RF Based Wireless Remote for Advanced Steward Calling System In Airlines/Flights.
- 416. Wireless Automatic Speed Control at Sensitive Zones by Using RF Module.
- 417. Automatic Railway Crossing Gate Controller Using IR and RF Communication.
- 418. Innovative vehicle for travelling on water and land and in air.
- 419. Channel RF Based Wireless Remote Control of Devices in Home/Office Using AVR Micro Controller.
- 420. Incoming/Outgoing vehicle alert from main gate to control office using SMS transmitting through RF module.
- 421. Mobile Embedded Systems for Home Care Applications using zigbee and RF transmitter and receiver.

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- 422. Wireless speed and direction control of dc motor using RF communication using AVR microcontroller.
- 423. Modern house automation (ac/dc) using RF communication for power saving.
- 424. Wireless Electrical Apparatus Control System with Speed Control of AC motor in a plant using RF communication.
- 425. Wireless Multipurpose 4 channel RF Remote for controlling the devices using AVR microcontroller.
- 426. Wireless Remote Control of Devices in Home/Office Using RF Communication.
- 427. Vehicle over Speed Control System.
- 428. Wireless Data Encryption and Decryption for Secured Communication using RF.
- 429. Micro controller based fire monitoring system in petro chemical industries using RF Communication.
- 430. Detecting the conditions of remote areas through data acquisition system using RF.
- 431. Robot/Robotic ARM control using RF.
- 432. RF based wireless weather station.
- 433. Hovercraft.
- 434. Wireless Electronic notice board with multi point receivers using RF.
- 435. Heart beat and respiratory measurement.
- 436. Blood oxygen measurement.

Mobile & Satellite Communication GSM / CDMA / DTMF / GPS
/ 3G / GPRS



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- 437. Security Integrated system based on wireless access protocol for industrial applications with SMS alert system using GSM modem
- 438. Design and development of activation and controlling of home automation system via SMS through microcontroller
- 439. SMS based PWM Speed and Direction control of DC motor using H-Bridge and GSM
- 440. An Implementation embedded system of vehicle detection, tracking and counting objects for Traffic Surveillance System
- 441. Research And Development Of Communication Between Pc And Mobile Base On Embedded System And Gprs
- 442. A Smart Home Security system Based On 3G
- 443. Development Of Short Message Service (SMS) Application For School Usage
- 444. Controlling Robot By GSM Through SMS
- 445. Body Temperature And Electrocardiogram Monitoring Using An SMS-Based Telemedicine System
- 446. Remote Controlling And Monitoring System To Control Electric Circuitry Through Sms Using A Microcontroller
- 447. Design And Development Of Real Time Vehicle Tracking System
- 448. Gps-Gsm Integration For Enhancing Public Transportation Management Services
- 449. Implementation Of Zigbee-Gsm Based Home Security Monitoring And Remote Control System
- 450. Field Variable Monitoring In Real Time (Gps, Soil Moisture, Temperature) With Precision Farming Applications
- 451. Pir Based Motion Detection Monitoring With Alert Using Gsm/gprs Technology
- 452. Gps Vehicle Theft Identification And Tracking And Control System
- 453. Designation And Realization Of Ship Navigation System Embedded Platform Based On ARM
- 454. Application Of Gprs Technology In Water Quality Monitoring System



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- 455. Real Time Sms-Based Hashing Scheme For Securing Financial Transactions On Atm Terminal
- 456. Automatic power meter reading using gsm network
- 457. Mobile monitoring system for smart home
- 458. Gsm based advertising display system using
- 459. Design of vehicle positioning system based on ARM
- 460. Remote Parent Care (RFID & GSM)
- 461. SMS based Speed control of thread roller's AC motor in spinning mills using GSM
- 462. Design of an Intelligent SMS based Remote electricity Metering and billing System
- 463. Supervisory control and data acquisition system (SCADA) using GSM modem
- 464. Intelligent real time automatic transformer load sharing and remote control system using GSM modem
- 465. Advanced real time vehicle tracking system using GPS modem
- 466. Automatic Vehicle Accident Detection and Messaging System using GSM and GPS
- 467. Design and development of SMS based Car Engine control system to prevent car theft
- 468. Mobile phone signal jammer for GSM, CDMA and 3G networks with user selectable pre scheduled time duration (Mobile Jammer)
- 469. SMS based Wireless electronic notice board using GSM / CDMA / 3G mobile phone
- 470. Smart parking reservation system using short message services (SMS) IEEE2010
- 471. SMS based railway reservation system using GSM modem
- 472. Smart parking reservation system using short message services
- 473. Blind Person Navigation system using GPS & Voice announcement



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- 474. A Prototypic Design Approach for Automotive Telemetric On-Board Unit Platform (Atop) Using AVR Powered NFC (Near Field Communication) Technology.
- 475. Microcontroller Based Wireless Automatic Device Control System Using GSM Module.
- 476. Wireless System For Knowing The Bus Position And Empty Seats In Bus Using GPS-GSM Modules.
- 477. Vehicle Tracking System Using GPS & GSM for Finding the Theft Vehicle .
- 478. Wireless Street Light Controlling System From Any Where Using GSM And Cell Phone.
- 479. Wireless System For Knowing The Bus Position And Empty Seats In Bus Using GPS-GSM Modules.
- 480. Wireless Accident Detection System For Transmitting The Information Of Bus To Police Station Using GPS -GSM And Vibration Sensor.
- 481. Path Tracking Of An Unicycle Robot With A Wide-Type Wheel Aimed For Navigation By Using GPS Module.
- 482. Routing And Tracking System For Mobile Vehicles In Large Area.
- 483. Security System For ATM Using GSM, FPRS , Keypad.
- 484. Wireless System For Transmitting The Information Of The Bus To The Bus Station Using GPS And GSM.
- 485. Identifying Objects Using RF Transmitters and Receivers and Retrieving data Using GSM.
- 486. Plant Humidification for Agricultural Land Using GSM.
- 487. Duplex Audio and Video Communication System for A Remote Guidance for the Blind Using GSM and GPS.
- 488. An Embedded System for Security Purpose Using Finger Print and Keypad.
- 489. A Versatile Highway Mishap Positioning System And Bio Parametric Identification Techniques Using Nano Id And Global Position Modems(HMPS).
- 490. An Embedded Mobile ECG Reasoning System For Elderly Patients Using RFID And GSM.

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491. Automatic Vehicle Security And Accident Detection Messaging System Using GSM And GPS Modems.
492. Design Of An Intelligent Remote Metering System For Fast Accurate And Secured Information Using GSM.
493. Embedded System For Transmitting The Information Of High Speed Vehicle To Police Station Using GSM And RFID .
494. Global Positioning System For Displaying The Location In Any Unknown Areas Using LCD And GPS.
495. GPS & GSM Based Car Security System And Remote Accident Indication System.
496. GSM Based ECG Tele-Alert System For Sending The Abnormal Conditions To Doctor.
497. GPS-GSM Integration for Enhancing Public Transportation Management Services.
498. A Prototypic Design Approach for Automotive Telematics On-board Unit Platform (ATOP) Using ARM Powered NFC (Near Field Communication)Technology.
499. Autonomous vehicle with GPS Navigation.
500. GSM based automatic door locking system.
501. GSM Based Home Security System.
502. Real time atomization of agricultural environment for social modernization of Indian Agricultural system.
503. Research on long-range and metering reading for water meter based on GPRS.
504. A mobile GSM – sensors array for air pollution monitoring.
505. Real Time ECG Measurement & visualization of Mobile Biotelemetry monitoring station.
506. SMS based PWM Speed and Direction control of DC motor using H-Bridge and GSM Modem.
507. Engine monitoring through mobile phone.
508. GPS based road traffic monitoring system.



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- 509. Water level indicator and control system using GSM.
- 510. Supervisory control and data acquisition system (SCADA) using GSM Modem.
- 511. SMS based Remote Electricity Metering and billing system.
- 512. Security Integrated system based on wireless access protocol for industrial applications with SMS alert system using GSM modem.
- 513. GSM Based Device monitoring and controlling with fencing security system.
- 514. Development of Remote Waste Gas Monitor System.

Robotics / Solar Robotics / Wireless MEMS Technology Robotics

- 515. Implementation of artificial eye for Intelligent Line Following Robot application
- 516. RF Controlled Metal Detecting Robot with Remote Voice And Image Transmission to assist bomb detection and rescue team
- 517. Design And Implementation Of Low Cost Intelligent Wheelchair
- 518. Robotic ARM With Base Rotation, Elbow And Wrist Motion With A Functional Gripper for pick and place applications
- 519. Intelligent Autonomous six legged robot to operate on uneven surfaces
- 520. Remote GSM Mobile phone controlled Robotic ARM with Base Rotation, Elbow and Wrist Motion with a Functional Gripper
- 521. Hand gesture based wheel chair movement control for the disabled using (Micro Electro Mechanical Sensor) MEMS technology
- 522. Visual Detection Of Objects In A Robotic Work Area Using Hand Gestures



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- 523. A Color-Based Target Localization Method And Its Implementation On Embedded Auto-Mobile Robot System.
- 524. Design Of Embedded Traffic Sign Detection And Recognition For Intelligent Vehicle
- 525. Embedded Control System Design For Coal Mine Detect And Rescue Robot
- 526. Design And Development Of Weather Monitoring Flying Machine
- 527. Implementation Of Obstacle Avoidance And Zigbee Control Functions For Omni Directional Mobile Robot
- 528. Controlling Robot By Gsm Thorough Sms
- 529. Development Of Robot Controlled By Object Movement
- 530. The Design Of Intelligent Robot Based On Embedded System
- 531. Development Of Robotic Sewerage Blockage Detector Controlled By Embedded Systems
- 532. A Low Cost Microcontroller Implementation Of Neural Network Based Hurdle Avoidance Controller For A Car-Like Robot
- 533. Design And Development Of Human Tracing Robo
- 534. Hand gesture recognition technology based wireless surveillance bomb diffusing robot with mobile jamming technique using MEMS technology
- 535. RF Controlled Robotic Boat to Travel in Water with Wireless Video And Voice
- 536. RF Controlled Fire Fighting Robot with high pressure water sprinkler
- 537. LPG Detecting Robot with wireless Voice And Image Transmission for industrial
- 538. Mems Accelerometer Based Nonspecific-User Hand Gesture Recognition
- 539. Bluetooth based Robot Control for Metal Detection Applications
- 540. DTMF based human less boat control for ocean research applications
- 541. Wireless target recognition and counter attacking robot with laser gun activation
- 542. Autonomous Guide Cane for blind or visually impaired travelers using IR
- 543. Intelligent Wall Follower Robot



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- 544. Head movement controlled car driving system to assist the physically challenged
- 545. Mining safety – implementation of RF controlled Robotic Electronic Nose to detect dangerous gases for alerting mining workers and engineers for preventive actions – (This robotic nose can sense various odors and gases like methane, carbon monoxide, liquid petroleum gas etc - more sensitive than human nose)
- 546. RF Based Farmer friendly Agricultural Robot with motorized shovel control System with automatic seed dispensing system
- 547. Automatic Intelligent Industrial Object sorter with conveyor belt arrangement for color distinguishing and object count applications
- 548. Pole climbing Robot for surveillance application with voice and image recording in SD card / Memory card
- 549. Search and rescue robot for victims of earthquake and other natural calamities
- 550. Light Search and following robot

Solar / Wind / Green House / Renewable Energy Sources

- 551. Medicine Refrigeration for rural and flood affected areas - Fast chilling solar based refrigerator with dual mode battery charging for preserving medicines
- 552. Solar based air compressor pump for car bike tire inflate
- 553. Solar based high efficient vacuum cleaner capable of capturing even 40 microns small dust
- 554. Implementation of Solar inverter for home / garden / street light applications
- 555. Real Time Clock based solar LED street light automation using Dallas RTC and I2C protocol
- 556. Implementation of solar water pump control with four different time slots for



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- power saving applications
- 557. Design and implementation of maximum power tracking system by automatic control of solar panel direction according to the sun direction (Model Sunflower)
 - 558. Application Of Environmental Management On Energy Saving And Green House Gas Reduction
 - 559. Aerodynamic wind mill with reverse charge protection for rural power generation applications with battery voltage analyser using AT89S52 MCU (IEEE 2011)
 - 560. Next generation alternative energy storage application with super capacitors / ultra capacitors with voltage analyser using AT89S52 MCU (IEEE 2011)
 - 561. Solar based E-Uniform for soldiers who work at extreme high temperature or extreme low temperature (same uniform can be used to WARM up or cool down body temperature)
 - 562. Foot step power generation system for rural energy application to run AC and DC loads
 - 563. Hand cranked dynamo based energy generation system for emergency headlamp applications for mining workers and engineers who work under ground and dark conditions
 - 564. Micro hydel power generation system from building roof rain water flow to power AC / DC loads with battery reverse charge protection (IEEE 2011)
 - 565. Farmer friendly Solar based electric fence for rural agriculture with battery voltage analyzer using AT89S52 MCU
 - 566. Solar based mobile charger for rural areas (Charge your mobile anywhere with sunlight) with battery voltage analyzer using AT89S52 MCU
 - 567. Solar highway lighting system with auto turn off on day time with LCD display

PC Based projects



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- 568. PC based Appliances control in a plant using PCs parallel port (C-Language)
- 569. Communicating to 89S52 MCU through windows hyper terminal using RS-232
- 570. PC Based stepper motor control for robotic applications
- 571. PC Based DC Motor speed and direction control using PWM and H-Bridge
- 572. PC Based Hi-Tech industrial automation with auto / manual modes of operation
- 573. PC to Microcontroller Secured Data Communication using Fiber Optic cable
- 574. PS2 Controlled mouse for controlling Robot using RF transmitter and receiver.
- 575. PS2 keyboard based text message transmission using GSM.
- 576. PS2 keyboard based wireless data transmission between two microcontrollers.
- 577. Robotic ARM manipulator using PS2 protocol.
- 578. PS2 + Zigbee based high speed data transmission.

AT89S52 Microcontroller Based Projects

- 579. Petrochemical Level Indicator and Controller for Automation of cotton purification process in spinning mills using 89S52 MCU
- 580. Super sensitive Industrial Security System with Auto dialer and 60dB loud siren



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- 581. Coin operated fortune telling system with dancing LED effect
- 582. Embedded Quiz monitoring system with team performance evaluation
- 583. Programmable temperature monitor and controller for industrial boilers & ovens
- 584. High sensitive LDR based power saver for street light control system
- 585. Embedded Rigging free Electronic Voting System with instant results
- 586. Embedded Password based Access Control System using I2C protocol
- 587. Automatic Temperature based Fan Speed Controller
- 588. Embedded Automatic Car Parking System using AT89C51 MCU
- 589. High sensitive IR based Unmanned Railway Gate Control using AT89C51 Microcontroller
- 590. Automatic Room Light control with Visitor Counting for power saving applications in seminar halls
- 591. Embedded automatic two gate interlock for toll tax system
- 592. DC Motor speed control using PWM Technique
- 593. Real Time Clock based industrial automation using Dallas RTC and I2C protocol
- 594. Jogger bench using PWM Technique and H-Bridge with person fall detection & prevent ion Electronic Notice Board with LED Dot Matrix Display and PS2 key board interfacing for user friendly message entry
- 595. Automatic School Bell with user defined time schedule using I2C protocol
- 596. Implementation of artificial eye for Intelligent Line Following Robot application
- 597. EEPROM Based Prepaid energy meter with auto cut off on no balance
- 598. Digital Code converters BCD to Grey / Excess-3 / 7-segment
- 599. DTMF based Industrial automation and appliances control system for rural and agriculture applications
- 600. Auto turn off for water pump with four different time slots for power saving applications
- 601. Embedded concentration tester – Touch Me Not using AT89S52
- 602. Stepper motor control using AT89S52 for robotic applications



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- 603. Automatic Dam Gate Control System with Caution ALARM
- 604. Automatic Active Phase selector for single phase load from three phase supply
- 605. Electronic Private Automatic Branch Exchange System with call forward and call pick up
- 606. RTC based Digital Clock with Seven-segment Display with 12 / 24 hours mode
- 607. Gold and Silver Rate Display System with EEPROM Data Back up System
- 608. Design and implementation of maximum power tracking system by automatic control of solar panel direction according to the sun direction (Model Sunflower)
- 609. Implementation of Path clearing assist stick and obstacles detection safety cap for the blind
- 610. Digital Heart beat Rate monitoring system using AT89C51 MCU

RTC BASED

- 611. Advanced power saving system for building management system using real time clock chip/EPROM with I 2C protocol.
- 612. Microcontroller Based Traffic S ignaling System Using Real Time Clock(RTC).

PROTOCOL BASED

- 613. I2C protocol based real time clock control application.
- 614. Zigbee protocol based wireless chatting.
- 615. Zigbee protocol based high speed data transmission.



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- 616. PS2 protocol based robot control with multiple features.
- 617. Interfacing keyboard and mouse to the micro controller using PS2 protocol.

LASER BASED

- 618. Laser based high speed data transfer.
- 619. Laser based wireless music station.
- 620. Laser based wireless chatting.

Touch Panel / Graphical LCD / Speech / Voice / Human-Machine-Interface (HMI)

- 621. Design and development of GSM mobile phone using touch screen based keypad
- 622. Touch screen and wireless communication based personal assistant for Dumb and illiterate in Airlines
- 623. Touch Screen based Voice Announcement System for blind and Dumb/illiterates in Airlines by using zigbee module.
- 624. Touch screen based remote controlled robot with remote voice and image transmission with LPG and metal detection capabilities
- 625. Touch screen based wireless smart Home Automation System
- 626. Touch screen controlled dimmer light for next generation apartments
- 627. MEMS Based Human – computer interface mouse control for PC with windows media player controller

- 628. User independent voice commands based robot control with remote voice and image transmission.



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- 629. A Highly Area Efficient Controller For Capacitive Touch Screen Panel Systems
- 630. Speech Recognition enabled smart home automation for the blind and physically challenged.
- 631. Voice operated intelligent Elevator
- 632. Voice enabled switching device and security system with auto dialer and 60db loud siren
- 633. User dependent speech Recognition based security access control system.
- 634. Advance GSM based calling bell system for deaf and dumb
- 635. Intelligent touch panel based menu ordering system for restaurants
- 636. RC5 IR remote Based Human – computer interface mouse control for PC with windows media player controller
- 637. Microcontroller based text to speech converter for the dumb
- 638. Touch screen and EEPROM smart card based ticket booking system

