

**Projects titles are as follows.**

- AUTOMATIC OBJECT IDENTIFIER
- LINE FOLLOWER ROBOT
- IMPLEMENTING PERIPHERALS USING 32-BIT ARM MICROCONTROLLER
- LIBRARY DATA MANAGING DEVICE
- AUTOMATIC DOOR OPENING USING PIR
- IMPLEMENTING PERIPHERALS USING 8051 MICROCONTROLLER
- TEMPERATURE AND HUMIDITY CONTROL SYSTEM USING GRAPHIC LCD AND ARM CONTROLLER
- HIGHWAY VEHICLE TRAFFIC MONITER USING GSM
- VEHICLE TRACKING USING GPS AND GSM
- HOME SECURITY AND AUTOMATION USING GSM
- INDUSTRIAL COOLING SYSTEM
- AUTOMATIC LIGHTNING AND COOLING SYSTEM
- SMS BASED NOTICE BOARD USING GSM
- RF BASED TEMPERATURE AND HUMIDITY MONITORING SYSTEM
- RFID BASED OFFICE SECURITY SYSTEM
- EVENT MANAGEMENT MONITORING SYSTEM
- WIRELESS ROBOT MONITERING USING RF
- WIRELESS DOOR MONITERING
- SMS BASED HOME AUTOMATION
- AUTOMATIC HIGHWAY SIGNALLING SYSTEM ALONG WITH SPEED CONTROLLING
- AUTOMATIC HIGHWAY SIGNALLING SYSTEM USING ZIGBEE
- AUTOMATIC HIGHWAY SIGNALLING SYSTEM
- IR BASED OBSTACLE DETECTOR
- RFID and ZIGBEE BASED LIBRARY MANAGEMENT
- ARM AND RFID BASED SECURITY SYSTEM
- ARM AND RFID BASED EVENT MANAGEMENT MONITORING SYSTEM
- AUTOMATIC RAILWAY SIGNALLING SYSTEM
- ARM BASED LINE FOLLOWER ROBOT
- ARM BASED VEHICLE TRACKING USING GPS AND GSM
- IR BASED WALKING STICK FOR BLIND
- ARM BASED WIRELESS ROBOT MONITORING USING RF
- DENSITY BASED TRAFFIC SIGNAL CONTROL
- SMS BASED NOTICE BOARD USING GSM and ARM
- DIGITAL PERSONAL ASSISTANT
- DIGITAL DICTIONARY
- SMS BASED AC CONTROL
- HOME SECURITY SYSTEM
- RF BASED MASTER CONTROLLED SLAVE ROBOT
- CAR AUTOMATION USING CAN NETWORK
- FIRE SENSING ROBOT
- MULTI PURPOSE SECURITY SYSTEM USING GSM
- WIRELESS TELEMEDIA SYSTEM BASED ON ARM AND WEB SERVER
- MULTI USER DIGITAL REMAINDER
- REMOTE FIRING ROBOT
- BUS AUTOMATION
- GSM BASED LED NOTICE BOARD
- VOICE OPERATED SYSTEM
- 15 STEP DIGITAL POWER SUPPLY
- HW Simulated Phase Meter
- RF BASED HEART RATE MONITOR
- Toll Collection System using RFID
- Metal Detecting Robot
- PICK AND PLACE ROBOT
- SMART PARKING SYSTEM
- SMS BASED IRRIGATION SYSTEM
- ARM BASED SMART POWER GENERATION AND OPTIMIZATION
- DTMF CONTROLLED ROBOT
- AC ENERGY SAVER
- RFID BASED VOTING MACHINE
- RF BASED WATER LEVEL CONTROLLER
- LED DISPLAY BOARD WITH DATA UPDATER
- CAR AUTOMATION
- FIRE SENSING ROBOT WITH RF AND ALARM
- REMOTE MONITORING OF CAR ENGINE USING CAN AND ZIGBEE PROTOCOLS AN APPLICATION OF WIRELESS DATA ACQUISITION
- DIALY SMS REPORT BASED PREPAID ENERGY METER
- LASER SECURITY SYSTEM
- OFFLINE MONITORING OF ADVERTISEMENT HOARDINGS USING GSM AND GPS WITH LASER SECURITY SYSTEM

- FREE MOVING ROBOT WITH FRONT & BACK IR OBSTACLE DETECTOR
- RF BASED INTERCOMMUNICATION OF TRAINS TO AVOID COLLISION
- SOLAR PANEL CONTROLLER AND POWER OPTIMIZATION
- POWER CONVERSION
- RF BASED WIRELESS ENCRYPTION AND DECRYPTION MESSAGE TRANSFER SYSTEM FOR MILITARY APPLIANCES
- WIRELESS SECURITY SYSTEM FOR SHOPS
- AUTOMATIC CONTROL OF STUDENTS ATTENDANCE IN CLASSROOMS USING RFID
- RFID BASED EMPLOYEE DATABASE MANAGEMENT USING RTC
- SMS BASED DC MOTOR SPEED CONTROL
- SMS BASED AC MOTOR SPEED CONTROL
- DISTANCE MEASUREMENT USING ULTRASONIC TECHNOLOGY
- RTC BASED DIGITAL COUNTDOWN TIMER
- RTC BASED DIGITAL CALENDAR
- WIRELESS TRANSFORMER PARAMETER MEASUREMENT AND PROTECTION
- EARTHQUAKE DISASTER RESCUE ROBOT
- SMS BASED NOTICE BOARD USING GSM & LCD WITH PERIOD BELL
- INTELLIGENT ENERGY SAVING SYSTEM IN LIBRARIES
- STREET LIGHT POWER SAVER
- INTELLIGENT CONTACTOR FOR HIGH POWER MOTORS
- INTELLIGENT WORK SUPERVISOR
- SEEDING AGRICULTURE ROBOT
- WIRELESS SENSOR NETWORK
- REMOTE AIRFIELD LIGHTING SYSTEM (IEEE 2010)
- MICROCONTROLLER BASED NEURAL NETWORK CONTROLLED LOW COST AUTONOMOUS VEHICLE (IEEE 2010)
- REMOTE ELECTRONIC LAB USING WIRELESS NETWORK TECHNOLOGY
- GPS BASED PATIENT MONITORING ALERT
- CAN BASED REMOTE CAR AUTOMATION
- SIGN LANGUAGE COACH
- DIGITAL SYSTEM FOR BUS TICKETING
- STUDENT ENQUIRY SYSTEM BASED ON GSM
- HOME APPLIANCE CONTROL USING RF
- RTOS BASED WIRELESS SENSOR NETWORK
- VEHICLE CONTROL UNDER DRIVER FATIGUE
- AUTOMATIC DRUCKEN DRIVE AVOIDING SYSTEM
- IR BASED TOUCH AND GO NEAR TOLLGATE
- BLACK BOX IMPLEMENTATION FOR VEHICLE
- REAL TIME BUS ARRIVAL TIME PREDICTION WITH GPS DATA LOGGING
- INDUSTRIAL TIMER
- TOUCH SCREEN AND ARM BASED ROBOT MOTION CONTROL
- PLANET ROVER
- GREENHOUSE MAINTAINANCE SYSTEM USING PIC
- INTRUSION DETECTION USING FACE RECOGNITION AND GSM
- PATIENT RQUEST TO NURSE USING FLEX SENSOR
- LAND ROVER
- BIOMETRIC SECURE E-VOTING SYSTEM FOR ELECTION PROCESSES (IEEE 2008)
- TRUCK LIFT INDICATOR USING ACCELEROMETER
- DESIGN OF INTELLIGENT MOBILE VEHICLE CHECKING SYSTEM BASED ON ARM7 (IEEE 2010)
- FLEX SENSOR USING ROBOT CONTROL
- TOUCH SCREEN BASED ROBOT USING SPEECH
- HUMIDITY AND TEMPERATURE BASED IRRIGATION CONTROL AND PHOTOSYNTHESIS
- A\_INTELLIGENT AMBULANCE FOR CITY TRAFFIC\_LM35\_HR
- INTELLIGENT AMBULANCE FOR CITY TRAFFIC
- ETHERNET BASED EMBEDDED SYSTEM DESIGN FOR INDUSTRIAL CONTROL
- MICROCONTROLLER BASED WIRELESS MOBILE PRINTER
- WIRELESS SECURITY SYSTEM FOR HOME AUTOMATION
- BLACK MONEY TRACKER
- HITECH JAIL
- 3 STAGE SECURITY WITH MOBILE VERIFICATION
- SERVER BASED VEHICLE TRACKING WITH SET SMS AND LOCATION REQUEST
- ZIGBEE WIRELESS POWER MANAGEMENT UNIT FOR ENERGY METER
- AUTOMATIC RAILWAY GATE CONTROL USING STEPPER MOTOR
- DC MOTOR SPEED MEASUREMENT
- PC BASED VOICE OPERATED DEVICE & ENERGY METER CONTROL
- GSM BASED CONTROL OF FIELD PARAMETERS
- REMOTE TEMPERATURE AND HUMIDITY MONITORING
- PORTABLE NOTE TAKER FOR BLIND
- COMPONENT TESTER
- DETECTION AND MONITORING OF CO AND TEMPERATURE IN AUTOMOBILES
- RFID BASED RAILWAY TICKETING AND GSM BASED RESERVATION CONFIRMATION

- MILK DENSITY ANALIZER USING ARM7 & GLCD
- INDUSTRIAL FLUID MONITORING USING ZIGBEE
- GPS AND GSM BASED FARE METER
- RFID BASED PASSENGER MANAGEMENT
- AUTOMATIC STREET LIGHT SENSOR WITH SMS ERROR REPORT
- COLLEGE BUS TRACKING SYSTEM USING GPS AND GSM ALONG WITH AUTOMATIC VOICE ANNOUNCEMENT SYSTEM
- AUTOMATED CAR PARKING USING ULTRASONIC SENSOR
- EMERGENCY DETECTION SYSTEM IN MOVING VEHICLE
- MEASUREMENT OF DENSITY AND PH IN MILK
- PLASTICITY MEASUREMENT IN RUBBER
- CELL PHONE CONTROLLED ROBOT
- GPS INTEGRATED MOVING VEHICLE
- PC CONTROLLED ROBOT
- PATIENT MONITORING SYSTEM FOR BODY TEMPERATURE AND HEART RATE
- RADIO CONTROLLED COMBAT ROBOT
- LDR BASED DC MOTOR ROTATION CONTROL
- HUMAN MOTION & GAS LEAKAGE DETECTION WITH SMS INTIMATION
- ALCOHOL DETECTION IN VEHICLE
- MOBILE DETECTION
- IR BASED STREET LIGHT CONTROL
- ULTRASONIC BASED DEFENCE SECURITY SYSTEM
- BANK LOCKER SECURITY SYSTEM USING DTMF & GSM
- RF BASED ROBOT CONTROL WITH TEMPERATURE ALERT
- IR BASED OBSTACLE DETECTION ROBOT

#### **ARM 7 and 8051**

- The study on design speech-control power point presentation tool.
- Stride time estimation: Real-time peak detection implemented on an 8-bit, portable microcontroller.
- Wireless Access Monitoring and Control System based on Digital Door Lock.
- Solar power wireless monitoring system based on ARM7
- PIR based Motion Detection Monitoring with Alert using GSM/GPRS Technology.
- Sensor Network Based Oil well Health Monitoring and Intelligent Control
- GPS Vehicle Theft Identification and Tracking and Control system.
- PC Based Weight Scale System with Load Cell for Product Inspection.
- . Wireless Black Box Using MEMS Accelerometer and GPS Tracking for accidental Monitoring of vehicles.
- Research on method for real-time monitoring dynamic vehicle loading based on multi-sensors Route planning and user interface for an advanced intelligent transport system.
- MEMS Accelerometer Based Nonspecific-User Hand gesture Recognition.
- Missile detection and automatic destroy.
- Application of environmental Management on energy saving and Green house Gas Reduction.
- The implementation of serial communication embedded technology in the vehicle alcohol lock
- Ultrasonic spectacles and waist-belt for visually impaired blind person.
- An Accelerometer-Based Digital Pen with a Trajectory Recognition Algorithm for Hand written Digit and Gesture Recognition.
- Development of Multi-functional Sensor Module for Energy Saving Air Conditioner System.
- Field variable Monitoring in Real Time (GPS, soil moisture, Temperature) with precision Farming Applications.
- Design and technology for 3D MEMS device for vibration energy harvesting.
- An extensible embedded terminal platform for wireless tele-monitoring
- Research of intelligent greenhouse remote monitor system based on embedded network and wireless transmission technology
- The Research of the ZigBee and RFID Fusion Technology in the Coal Mine Safety
- The design and implementation of intelligent campus security tracking system based on RFID and ZigBee.
- The Electronic Passport and the Future of Government Issued RFID based Identification
- RFID and ZigBee based manufacturing monitoring system
- RFID technology and Zigbee networking in improving supply chain traceability
- Smart digital door lock for the home automation
- Supermarket shopping guide system based on Internet of things
- A sensor network based on RFID inventory for retail application
- Info Pods: Zigbee-Based Remote Information Monitoring Devices for Smart-Homes
- More efficient home energy management system based on ZigBee communication and infrared remote controls
- Design and development of RFID based ration card. Application and Evaluation of High Power Zigbee Based Wireless Sensor Network in Water Irrigation Control Monitoring System.
- Design of Monitoring System for Coal Mine Safety Based on Wireless Sensor Network.
- Research on power quality monitoring system of oil field based on ARM
- Implementation of ZigBee-GSM based home security monitoring and remote control system
- ZigBee-GSM based Automatic Meter Reading system.
- Over Speed Identification with Zigbee and RFID.
- Design of monitor-and-control system for Supermarket fresh area based on ZigBee
- Remote Controlling and Monitoring System to Control Electric Circuitry through SMS using a Microcontroller

- Design and implementation of real time vehicle tracking system.
- GPS-GSM Integration for Enhancing Public Transportation Management Services.
- Time attendance system with multi station and wireless communications. Biomedical: Body Temperature and Electrocardiogram Monitoring Using an SMS-Based Telemedicine System
- Non-Invasive Continuous BP Measurement
- Design and development of BIOFEEDBACK.
- Design and development of DC Defibrillation Calibration Unit.
- Design and development of Micro Controller Based Drug Dispenser.
- Design and development of Micro Controller Based Holter Monitor.
- Design and development of Nerve and Muscle Stimulator.
- Design and development of Pace Maker Demonstration Unit.
- Design and development of R-Wave Detection & BPM Measurement.
- Portable Micro Controller System for Tremor Analysis.
- Fall detection By Built-In Tri-Accelerometer of Smartphone. Robotics:
- Visual detection of objects in a robotic work area using hand gestures. Design and implementation of low cost intelligent wheelchair.
- An embedded vision system for robotic fish navigation.
- A Color-Based Target Localization Method and Its Implementation on Embedded Auto-Mobile Robot System.
- Design of embedded Traffic sign detection and recognition for intelligent vehicle
- Embedded control system design for coal mine detect and rescue Robot.
- Design and development of weather monitoring FLYING Machine.
- Implementation of Obstacle Avoidance and Zigbee Control Functions for Omni Directional mobile Robot.
- Design and development of GSM Controlling Robot by SMS.
- Development of Robot Movement Controlled By Object.
- The design of intelligent robot based on embedded system
- Robot Navigation System with RFID and Sensors
- Development of robotic sewerage blockage detector controlled by embedded systems.
- A Low Cost Microcontroller Implementation of Neural Network Based Hurdle Avoidance Controller for a Car.
- Design and Development Of Human Tracking Robot.

#### **ARM 9**

- The Design and Implementation of tablet pc using android in ARM9 The applications of Wi-Fi-based Wireless Sensor Network in Internet of Things and Smart Grid.
- An application of VoIP communication on embedded system in mini2440
- An Implementation embedded system of Vehicle Detection, Tracking and Counting Objects for Traffic Surveillance System.
- Design of embedded media player based on S3C2440 and SDL\_FFmpeg Real Time SMS-Based hashing scheme for securing financial transactions on ATM systems
- Design and implementation of Mouse simulation using gestures on a virtual screen
- A paperless FAX Machine using arm9
- Design of embedded system for Automated Road Surveillance System for Speed Violation Detection.
- Development of embedded web server on ARM9.
- Research and implementation of embedded face recognition system based on ARM9.
- Development of embedded Ethernet drivers for ARM9.
- Color recognition embedded system with augmented reality concept and finger interaction.
- Design and Development of Embedded Multimedia Terminal.
- A low-power, low-cost automotive touch screen with real controls.
- A Smart Home Security System based on 3G.
- The Research of Qt\_Embedded and Embedded Linux Application in the Intelligent Monitoring System Control.
- Research and development of communication between PC and mobile base on embedded system and GPRS.
- Customization & Compilation of embedded boot loader (U-BOOT) for ARM9.
- The Protection of Water Resources Environmental Based on Embedded Linux System.
- Design and development Embedded Motion Detection system in military applications in Mini2440.
- A Network Video Device Based on Specific Target Tracking.
- Design and implementation of Evidence Collecting System from Car Black Boxes.
- Design and Implementation of the Lab Remote Monitoring System Based on Embedded web technology.
- Design of Embedded Detection of Sudden Pedestrian Crossings for Driving Assistance systems
- Design and implementation of virtual keypad in arm9
- Design of automatic embedded vision of QR code recognition system.
- Real time car theft decline system using ARM processor
- Developing voice control system for zigbee based home automation networks.
- Design and implementation of Drivers drowsiness detection in embedded system
- The development of the short messaging service (SMS) application for the school usage
- Design of embedded Automatic detection of human faces in uncontrolled environments: Identification of direction and movement
- The design of door phone and control system for home secure applications
- Design and development of Pen drive to Pen drive data transfer using arm9
- Design of Automatic embedded vision authorized vehicle recognition system.
- A Voice-Driven Scene-Mode Recommendation Service for portable Digital Imaging Devices
- A Reliable Transmission Protocol for ZigBee-Based Wireless Patient Monitoring

- Designation and Realization of Ship Navigation System Embedded Platform Based on ARM
- Developing a smart camera for gesture recognition in HCI applications.
- The ECG Tele-Monitor Based on Embedded Web Server.
- A Low Cost Implementation of GPS Guided Driverless Cars.
- The design of granary environmental monitoring system based on ARM9 and GSM
- License Plate Location for Vehicles Passing through a Gate
- A highly area efficient controller for capacitive touch screen panel systems
- Design of on-line Interactive Data Acquisition and Control System for embedded real time applications.
- Application of GPRS technology in water quality monitoring system
- Design of embedded Real time car parking system using image processing
- The research on Zigbee-based mine safety monitoring system
- The Electrical Ethernet monitoring system based on embedded Web server.

## EMBEDDED SYSTEM

- A contest-oriented project for learning intelligent mobile robots
- A low cost web based remote monitoring system with built-in security feature for vulnerable environments
- A smart prepaid energy metering system to control electricity theft
- Scaling Energy Per Operation via an Asynchronous Pipeline
- A wearable inertial-sensing-based body sensor network for shoulder range of motion assessment
- A wireless electrocardiogram detection for personal health monitoring
- A ZIGBEE SMS alert system with trust mechanism in wireless sensor networks
- A ZIGBEE-based wireless wearable electronic nose using flexible printed sensor array
- An apparatus in monitoring the energy charging system
- An embedded system for an EEG based BCI
- Application of temperature compensated ultrasonic ranging for blind person and verification using Matlab
- Automated control system for air pollution detection in vehicles
- Automatic speed and torque monitoring in induction motors using ZIGBEE and SMS
- Biomedical sensor network for cardiovascular fitness and activity monitoring
- Building point of care health technologies on the IEEE 11073 health device standards
- Capacitive seat sensors for multiple occupancy detection using a low-cost setup
- Communication networks of domestic small-scale renewable energy systems
- Coordinator traffic diffusion for data-intensive ZIGBEE transmission in real-time electrocardiography monitoring
- Design and development of digital PID controller for dc motor drive system using embedded platform for mobile robot
- Design and development of pic microcontroller based vehicle monitoring system using controller area network (can) protocol
- Design and fabrication of a miniaturized ECG system with Bluetooth connectivity
- Dynamic wireless sensor networks for real time safeguard of workers exposed to physical agents in constructions sites
- Environment monitoring and device control using arm based embedded controlled sensor network
- High-temperature uhf RFID sensor measurements in a full-metal environment
- Human health monitoring mobile phone application by using the wireless Nano sensor based embedded system
- Integrated design of efficient & reliable motor drive and PFC using low cost microcontroller with embedded PGA's and CLA
- Intelligent monitoring and control rendered to street lighting
- Intelligent technologies for self-sustaining, RFID-based, rural e health systems
- Introduction of electromagnetic image-based chip less RFID system
- Low power wireless sensor network for building monitoring
- Mobile robot localization using the phase of passive uhf-RFID signals
- Multi-platform wireless measurement system for continuous bio-monitoring
- Optimal angular movement of laser beam in SPR using an embedded controller
- Passenger bus alert system for easy navigation of blind
- Portable wireless biomedical temperature monitoring system: architecture and implementation
- Power consumption in direct interface circuits
- Remote-control system of high efficiency and intelligent street lighting using a ZIGBEE network of devices and sensors
- RFID range extensions with low-power wireless edge devices
- RFID-based digital content copy protection system in movie and audio rental agency
- Smart host microcontroller for optimal battery charging in a solar-powered robotic vehicle
- Solar powered water quality monitoring system using wireless sensor network
- The ultrasonic distance alarm system based on msp430f449
- Towards the implementation of IOT for environmental condition monitoring in homes
- Water environment monitoring system based on ZIGBEE technology
- Wireless access control system based on IEEE 802.15.4
- Wireless sensor network for multi-storey building: design and implementation
- ZIGBEE and at mega 32 based wireless digital control and monitoring system for led lighting
- Building point of care health technology on the IEEE 11073 health device standards
- Monitoring of cigarette smoking using wearable sensors and support vector machines
- A Low-Complexity Turbo Decoder Architecture for Energy-Efficient Wireless Sensor Networks
- Scaling Energy Per Operation via an Asynchronous Pipeline
- ROBOTICS- Covering Points of Interest with Mobile Sensors
- Concurrent Multiresource Arbiter Design and Applications
- Distributed Multiple Constraints Generalized Sidelobe Canceler for Fully Connected Wireless Acoustic Sensor Networks

- Exponential and Power Law Distribution of Contact Duration in Urban Vehicular Ad Hoc Networks
- On the Reconstruction of Quad-Pol SAR Data From Compact Polarimetry Data For Ocean Target Detection
- Pragmatic Integration of an SRAM Row Cache in Heterogeneous 3-D DRAM Architecture Using TSV
- Real-Time Implementation of the Vertex Component Analysis Algorithm on GPUs
- Real-Time IO Management System with COTS Peripherals

#### **EMBEDDED MAJOR PROJECTS LIST**

##### **WEB SERVER – ETHERNET – CAN - IOT BASED APPLICATION**

- WEB BASED MANAGEMENT SYSTEM FOR REMOTE ACCESS OF HOME TERMINALS
- ONLINE MONITORING AND CONTROL SYSTEM FOR GREEN HOUSE
- INDUSTRIAL PARAMETER MONITORING SYSTEM USING CAN
- AUTOMATED IRRIGATION SYSTEM IN AGRICULTURE USING WIRELESS SENSOR TECHNOLOGY
- DESIGN AND IMPLEMENTATION OF A MULTI-CORE EMBEDDED WSN USED FOR INDUSTRIAL APPLICATIONS
- A SURVEY OF WIRELESS COMMUNICATIONS AND PROPAGATION MODELING IN UNDERGROUND MINES
- .AN EMBEDDED SYSTEM BASED MONITORING SYSTEM FOR INDUSTRIES BY INTERFACING SENSORS WITH IOT ENVIRONMENT
- ETHERNET BASED WIRELESS SMARTER HOME ENERGY MANAGEMENT
- AN INTEGRATED SYSTEM FOR REGIONAL ENVIRONMENTAL MONITORING AND MANAGEMENT BASED ON IOT
- ADVANCE VEHICLE CONTROL SYSTEM IMPLEMENTATION USING CAN PROTOCOL
- CAN BASED ACCIDENT AVOIDANCE SYSTEM
- WEB BASED MANAGEMENT SYSTEM OF A REMOTE MOBILE DEVICE USING DEVICE MANAGEMENT PROTOCOL
- CAN BASED INDUSTRIAL MONITORING
- FISCAL CASH REGISTERS WITH INTEGRATED GPRS TERMINAL
- GPS& GSM BASED HUMAN HEALTH MONITORING AND ALERT SYSTEM WITH PATIENT'S LOCATION ON EARTH
- .GPS+GSM BASED REAL-TIME BUS/TRAIN LOCATION FINDER AND DISPLAY ON EARTH'S MAP
- GPRS BASED REAL-TIME DEVICE STATUS LOGGER INTO WEBSITE
- .AUTOMATED PHONE OF DIABETES PATIENTS READINGS / CONSULTANT MONITORING VIA THE WEB

##### **ANDROID APPLICATION**

- WIFI AND LAPTOP BASED ADVANCED INDUSTRIAL AUTOMATION
- WIFI FOR VEHICULAR COMMUNICATION SYSTEM
- A MOBILE SYSTEM FOR VITAL SIGNAL'S DATA COLLECTION AND DATA PRESENTATION
- A WIRELESS HEALTH MONITORING SYSTEM BASED ON ANDROID OPERATING SYSTEM
- IMPLEMENTATION OF SMART RESTAURANT WITH E-MENU CARD
- BLUETOOTH DEVICE BASED ACCESS CONTROL SYSTEM
- ACCESSIBLE DISPLAY DESIGN TO CONTROL HOME AREA NETWORKS
- A REMOTE-CONTROL ENGINEERING LABORATORY
- ANDROID PASSWORD BASED REMOTE DOOR OPENER SYSTEM PROJECT
- WI-FI BASED COMMUNICATION AND LOCALIZATION OF AN AUTONOMOUS MOBILE ROBOT FOR REFINERY INSPECTION
- CIRCULAR NOTIFICATION FOR STUDENTS THROUGH WIFI

##### **FINGER PRINT RECOGNITION**

- DESIGNING FINGERPRINT-RECOGNITION-BASED ACCESS CONTROL FOR ELECTRONIC MEDICAL RECORDS SYSTEMS
- TIME ATTENDANCE AND ACCESS CONTROL SYSTEM BY USING THUMB SCANNING VERIFICATION TECHNIQUE
- FINGER PRINT RECOGNITION BASED MOST SECURED VEHICLE ACCESS CONTROL SYSTEM
- EVM FOR FEEDBACK COLLECTION SYSTEM IN COLLEGES
- SMS BASED HASHING SCHEME FOR SECURING FINANCIAL TRANSACTIONS
- MOBILE FUSION FOR AUTHENTICATED TRANSACTION

##### **SATILLITE & MOBILE COMMUNICATION**

- NEXT GENERATION AUTO THEFT PREVENTION OF A VEHICLE
- ARM BASED ADVANCED VEHICLE MONITORING AND TRACKING SYSTEM
- ELECTRONIC PROTECTION FOR EXAM PAPER LEAKAGE
- EMERGENCY ALERT FOR WOMEN SAFETY WITH LOCATION
- AN ENHANCED FALL DETECTION SYSTEM FOR ELDERLY USING GSM AND GPS
- AN INNOVATIVE COLLEGE BUS INFORMATION SYSTEM TO STUDENTS USING GSM
- A REAL TIME DROWSINESS DETECTION SYSTEM FOR SAFE DRIVING
- AUTOMATED SYSTEM FOR AIR POLLUTION DETECTION AND CONTROL IN VEHICLES
- MOBILE PHONE-BASED REMOTE PATIENT MONITORING SYSTEM FOR MANAGEMENT OF HYPERTENSION IN DIABETIC PATIENTS
- SAFE DRIVING SYSTEM FOR MOBILE PHONE USERS
- DESIGN AND IMPLEMENTATION OF VEHICLE BLACK BOX FOR DRIVER ASSISTANCE AND ALERT
- CHILD PRESENCE DETECTOR AND WARNING SYSTEM IN CAR
- ATM SECURITY WITH RFID AND ONE TIME PASSWORD (OTP) THROUGH GSM
- PREPAID ENERGY METER WITH AUTO PRINTER
- REMOTE CONTROLLING OF HOME APPLIANCES USING MOBILE
- .PAS: A WIRELESS-ENABLED, CELL-PHONE-INCORPORATED PERSONAL ASSISTANT SYSTEM FOR INDEPENDENT AND ASSISTED LIVING
- TRAFFIC INTIMATION USING GPS & GSM

## **RFID – SMARTCARD - TOUCH PANEL**

- ROBOT POSITION ESTIMATION ON A RFID-TAG SYSTEM IN SMART FLOOR
- RFID BASED RATIONING SYSTEM
- A UNIVERSAL REMOTE CONTROLLER WITH HAPTIC INTERFACE FOR CUSTOMER ELECTRONIC DEVICES
- APPLICATION OF RFID TECHNOLOGY AND THE MAXIMUM SPANNING TREE.
- SMART CARD BASED PREPAID ENERGY METER SYSTEM
- EMPLOYEE LOGIN AND LOGOUT MANAGEMENT SYSTEM WITH RFID
- SMART CARD BASED FUEL SUPPLY SYSTEM
- LOW FREQUENCY RFID BASED OBJECT IDENTIFICATION SYSTEM FOR BLIND PEOPLE
- DESIGN AND IMPLEMENTATION OF ARM BASED CHILDREN TRACKING SYSTEM
- PREDICTING BUS ARRIVAL TIME WITH MOBILE PHONE BASED PARTICIPATORY SENSING
- LIVE BUS STOPS AND MODERN BUSES TECHNOLOGY
- LIBRARY MANAGEMENT SYSTEM
- IMPLEMENTATION OF GREEN WAVE SYSTEM AND DETECTION OF STOLEN VEHICLES
- IMPLEMENTATION OF CHILDREN ACTIVITY TRACKING SYSTEM
- AUTOMATIC TOUCH SCREEN MOBILE BASED VEHICLE DRIVING SYSTEM
- CONVENIENCE PROBE: A PHONE-BASED SYSTEM FOR RETAIL TRADE-AREA ANALYSIS
- RFID AND ZIGBEE BASED MANUFACTURING MONITORING SYSTEM

## **COMMUNICATION APPLICATIONS**

- .A PROPOSED SYSTEM FOR ADVANCE SECURITY AND AUTOMATION IN METRO TRAINS TO PREVENT ACCIDENTS
- THE DESIGN AND IMPLEMENTATION OF INTELLIGENT CAMPUS SECURITY TRACKING SYSTEM BASED ON RFID AND ZIGBEE
- AUTO SPEED CONTROLING OF VEHICLES
- PORTABLE ROADSIDE SENSORS FOR VEHICLE COUNTING, CLASSIFICATION AND SPEED MEASUREMENT
- RFID AND ZIGBEE BASED AIRPORT LUGGAGE SECURITY SYSTEM
- ENERGY-EFFICIENT DATA COLLECTION IN WIRELESS SENSOR NETWORKS
- COALMINE SAFETY SYSTEM WITH ZIGBEE SPECIFICATION
- REAL TIME MONITORING AND CONTROL SYSTEM FOR GREEN HOUSE
- SMART PAD FOR EXAMINATION
- INDEPENDENT LIVING FOR PERSONS WITH DISABILITIES AND ELDERLY PEOPLE USING GPS AS A SECURITY
- .REAL TIME BUILDING ZONE OCCUPANCY DETECTION AND ACTIVITY

## **VISUALIZATION UTILIZING A VISITOR COUNTING SENSOR NETWORK**

- ZIGBEE BASED AUTOMATIC STREET LIGHT CONTROLING SYSTEM
- ECONOMICALLY FULLY CENTRALIZED SYSTEM IN BUILDING AUTOMATION WITH WIRELESS SENSOR NETWORKS
- AUTOMATIC CAR PARKING SLOT INDICATOR SYSTEM
- TRAFFIC CONGESTION CONTROL WITH AUTOMATIC SIGNAL CLEARANCE
- .DATA ACQUISITION SYSTEM OF ENERGY METER WITH WIRELESS COMMUNICATION FOR SMART METERING APPLICATION
- REAL TIME PADDY CROP FIELD MONITORING USING ZIGBEE NETWORK
- REAL-TIME MULTI-PATIENT MONITORING SYSTEM USING ARM AND WIRELESS SENSOR NETWORK
- ELECTRONIC WATER SUPPLY MANAGEMENT SYSTEM FOR EDUCATIONAL INSTITUTIONS
- DESIGN OF SPHYGMUS DATA ACQUISITION PLATFORM BASED ON WIRELESS SENSOR TECHNIQUE
- THE DESIGN AND IMPLEMENTATION OF A TEACHER-STUDENT INTERACTION SYSTEM BASED ON ZIGBEE AND RFID
- INTELLIGENT STREET LIGHT SYSTEM USING WIRELESS TRANSMISSION
- A WIRELESS ECG DETECTION FOR PERSONAL HEALTH MONITORING
- .SEARCH AND RESCUE ROBOT FOR VICTIMS OF EARTHQUAKE AND OTHER NATURAL CALAMITIES WITH REMOTE VIRTUAL.
- REMOTE METAL DETECTING ROBOT TO ASSIST BOMB DETECTION AND RESCUE TEAM
- WIRELESS MESSAGE COMMUNICATION SYSTEM BETWEEN TWO PERSONAL COMPUTERS
- SAFETY HELMET FOR BIKE AUTHENTICATION & ALCOHOL SENSING FOR RIDERS
- SMUGGLING CONTROL IN FOREST USING WIRELESS SENSOR NETWORK

## **ROBOTICS APPLICATIONS**

- SMART HOST MICRO CONTROLLER FOR OPTIMAL BATTERY USAGE
- ADVANCED REMOTE CONTROL ROBOT FOR INDUSTRIES
- ROBUST RAILWAY CRACK DETECTION SYSTEM
- AN ADVANCED ROBOT FOR MILITARY APPLICATION
- .PARTIAL AUTOMATION OF COAL STOCKING PROCESS INTO FURNACE
- WIFI BASED COMMUNICATION AND LOCALIZATION OF AN AUTONOMOUS MOBILE ROBOT FOR REFINERY INSPECTION
- EFFICIENT HUMAN CONTROL OF ROBOTS USING MYO ELECTRIC INTERFACES

## **ULTRASONIC & VOICE APPLICATIONS**

- SMART BACK PACK FOR PHYSICALLY IMPAIRED PERSON
- RELIABILITY OF AN EMBEDDED SURVEILLANCE SYSTEM WITH SECURITY APPROACH
- VEHICLE ACCIDENT AVOIDANCE SYSTEM

- MOTION BASED MESSAGE CONVEYER FOR PARALYTIC/DISABLED PEOPLE
- .FRIENDLY ASSISTIVE SYSTEM FOR HOME AUTOMATION AND PROTOTYPE ASSISTIVE TALKING
- EOG BASED ELECTRIC WHEEL CHAIR MOTION CONTROL USING EYE BLINK & EYEGAZE

#### EMBEDDED – MATLAB PROJECTS

- VISION BASED ASSISTIVE SYSTEM FOR LABEL DETECTION WITH VOICE OUTPUT
- OPTICAL VEHICLE COMMUNICATION NEAR TRAFFIC SIGNALS & PATH IDENTIFICATION
- ELECTRONIC PASSPORT AND THE FUTURE OF GOVERNMENT
- A CONFIGURABLE AND LOW-POWER MIXED SIGNAL SOC FOR PORTABLE ECG MONITORING APPLICATIONS
- RECOGNISATION OF ATM USING IRIS, FACE AND GSM
- ARM7 BASED SMART CAR SECURITY SYSTEM
- WHEEL CHAIR MOTION CONTROL USING EYE STATE
- REAL-TIME CLOCK AND I2C PROTOCOL BASED ELECTRONIC CALENDAR BY USING MICROCONTROLLER
- CONTROLLING OF 230V LAMP DIMMER WITH 10 LEVELS OF INTENSITY CONTROL
- SPEED DETECTION SYSTEM IN HIGHWAYS
- PORTABLE PROGRAMMABLE MEDICATION REMINDER
- THEFT DETECTION IN ATM'S USING CHLOROFORM
- RAILWAY TRACK PEDESTRAIN CROSSING WITHOUT ANY STAIRCASE

#### 8051 PROJECTS

- . DATALOGGER ANDROID
- WRONG DRIVING IDENTITY WITH INTELLIGENCE CHALAN PROFF
- VEHICLE SAFETY SYSTEM WITH IGNITION SECURITY
- INTELLIGENT SHOPPING COUNTERS
- SMART PAROXYSM PREDICTION AND LIFE SAVER SYSTEM
- FINGER PRINT BASED IDENTITY AUTHENTICATION FOR EXAMINATION SYSTEM
- RAILWAY TRACK SECURITY SYSTEM
- BODY MOTION INFORMATION COLLECTION ON UR PC
- VEHICLE POLLUTION CHECK AND TRACKING
- .A REMOTE MEASUREMENT AND CONTROL SYSTEM FOR GREENHOUSE BASED ONGSM-SMS
- GSM BASED WIRELESS HOME APPLIANCES MONITORING & CONTROL SYSTEM
- A WIRELESS DATA ACQUISITION AND TRANSMISSION SYSTEM DESIGN
- ENERGY MANAGEMENT WITH ZIGBEE SENSOR NETWORK
- MONITORING AND CONTROLLING OF REQUIREMENTS FOR CULTIVATION
- TIME BASED POWER SAVING SYSTEM IN CORPORATE ROADWAYS
- AUTHENTICATION AND ACCESS CONTROL SYSTEM FOR DEVICE USING SMART CARD
- STUDENT ADMINISTRATION AUTOMATION SYSTEM

#### Project Name

- Radio Controlled Combat Robot Ver-02 (Fighting Robot with Gun & Wireless Camera to tackle the 26/11 Mumbai like situation.)
- RF Controlled Intelligent Robot Car w/ Wireless Camera Ver-02
- Line follower Robot / Buggie
- Young Robot / Buggie
- Smart Buggie / Robot
- Mobile Phone Controlled IVRS System
- Mobile Phone Controlled Door Latch opener with Security Dialup &changable telephone Numbers
- Power Grid Control through PC
- Telephone Controlled Switched With Voice
- Six Channel Petrochemical Fire Monitoring & Control Station
- Token Number display with Voice
- Home Office Security System (Teleguard)
- Gas Turbine Compartment Temperature Controller
- Automatic Maintenance Reminder for diesel Engines
- 8051 Based Electronic Eye
- 8051 Based Electronic Eye with Event Logging
- Wireless Security System
- 8051 Microcontroller Based Codelock With Security dial up
- PT-100 Temperature controller
- \*Pc to Pc Laser Communication
- \*Pc to Pc Fiber - optic communication
- Bilge oil Water Seperator

#### Mini Projects (Available in kit form & ready form)

Project Name	Project code	Kit Price (INR)	Ready Price (INR)
* Parking Radar	ME1	600	1000
* Multi Core Cable Tester	ME2	2000	2500
* Kitchen Timer	ME3	300	650



* Room Thermometer	ME4	350	650
* Digital Lock	ME5	350	650
* Infrared Auto Switch	ME6	850	1200
* Buglar Alarm	ME7	250	500
* Driver Alert	ME8	1500	2000
* Water Level Controller	ME10	300	600