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- ROBOTICS
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- MATLAB / VLSI
- IEEE PROJECTS ON JAVA / DOT NET
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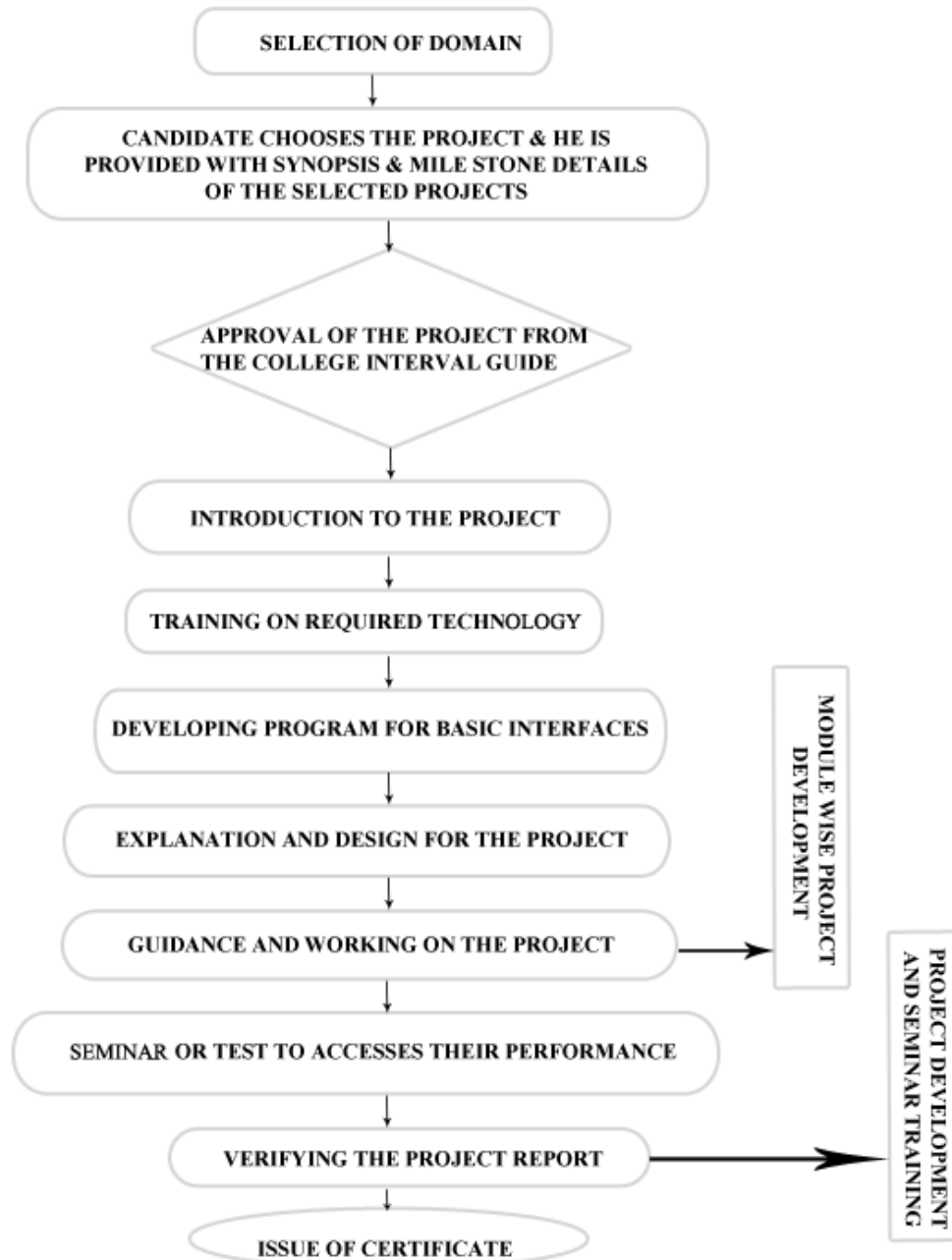
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## PROJECT LIST

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## PROJECT FLOW



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# EMBEDDED PROJECTS

## **ARM BASED PROJECTS**

1. PROGRAMMABLE LOGIC CONTROLLERS (PLC) USING ARM FOR INDUSTRIAL AUTOMATION WITH RS485.
2. REAL TIME DATA ACQUISITION SYSTEM USING ARM AND RTOS.
3. TEMPERATURE AND HUMIDITY CONTROL SYSTEM USING GRAPHICAL LCD AND ARM
4. IMPLEMENTING PERIPHERALS USING 32-BIT ARM MICROCONTROLLER
5. ARM AND RFID BASED SECURITY SYSTEM ( HOME , OFFICE OR INDUSTRIAL)
6. ARM BASED SMART POWER GENERATION AND MULTI PURPOSE OPTIMIZATION
7. INTERNET BASED HOME AUTOMATION SYSTEM USING ARM 7
8. ETHERNET CONTROLLER FOR HOME APPLIANCE USING INTERNET.
9. ARM BASED REMOTE TEMPERATURE CONTROLLER WITH ETHERNET.
10. DIGITAL RECEIPT SYSTEM (ARM+ETHERNET).
11. CHECK POINT ACCESS CONTROL USING ARM+ETHERNET+RFID.
12. TALKING THERMOMETER FOR VISUALLY IMPAIRED.
13. ARM AND GLCD BASED MICRO CONTROLLER CLOCK.
14. ARM+ETHERNET CONTROLLED TEMPERATURE REGULATOR USED TO CONTROL THE DEVICE.

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## MICROCONTROLLER BASED PROJECTS

1. AIRCRAFT BLACKBOX WITH AUTO INFORMATION TO THE BASE STATION.
2. EFFICIENT POWER GENERATION AND MULTI PURPOSE OPTIMIZATION
3. ADVANCED RTO SURVAILLANCE SYSTEM
4. INVISIBLE EYE
5. KROTO FINDER
6. WIRELESS SENSOR NETWORKS – DENSITY BASED TRAFFIC CONTROLLER
7. WIRELESS COMMUNICATION BASED DIGITAL NOTICE BOARD USING GRAPHICAL LCD
8. HIGH PROTECTION VOICE IDENTIFICATION BASED BANK LOCKER SECURITY SYSTEM WITH LIVE VIDEO TRANSMISSION
9. AUTOMATED GREEN HOUSE STATUS MONITORING AND CONTROL SYSTEM
10. DEVELOPMENT OF WIRELESS SENSOR NETWAORK FOR HEALTH MONITORINGSYSTEM
11. CABLE TESTER FOR INDUSTRIES USING AVR
12. MEDIBLACK BOX
13. AUTO WIPER SPEED CONTROLLER ACCORDING TO RAIN FORCE
14. ALCOHOLIC BREATH ANALYSER AND TILT DETECTOR FOR VEHICLE SECURED IGNITION
15. MICROCONTROLLER BASED AUTOMATED METRO TRAIN
16. A NOVEL OPTIMUM POINT TRACKER OF THE SOLAR CELL POWER SUPPLY SYSTEM
17. INDUSTRIAL AUTOMATION AND MONITORING SYSTEM (TEMPERATURE< VIBRATION< PRESSURE etc.)
18. ELECTRONUIC STICK FOR BLIND WITH PANIC BUTTON ALERT.
19. AUTOMATED AMBULANCE GATES AT AMBULANCE AND TRAFFIC SIGNALS.
20. MICROCONTROLLER BASED HOME OR INDUSTRIAL AUTOMATION.
21. PAITENT MONITORING SYSTEM
22. INTELEGENT AGRICULTURE SYSTEM WITH WEATHER MONITORING
23. RFID BASED TRAIN IDENTIFICATION, DETECTION AND UNMANNED RAILWAY CROSSING SYSTEM
24. AN INTEGRATED NETWORK OF ROADSIDE SENSORS AND VEHICLES FOR DRIVING SAFETY: CONCEPT, DESIGN AND EXPERIMENTS
25. MICROCONTROLLER BASED BANK LOCKER SECURITY SYSTEM WITH VOICE REPORTING
26. OUT-PATIENT TABLET TIME CARE SYSTEM WITH VOICE ANNOUNCEMENT
27. DENSITY BASED TRAFFIC LIGHT CONTROLLER
28. AUTOMATIC STREET LIGHT CONTROLLER WITH RTC
29. MICROCONTROLLER BASED SECURITY DOOR CONTROL SYSTEM FOR ATM WITH VOICE ANNOUNCEMENT
30. SMART PARKING SYSTEM
31. RESEARCH OF TRAFFIC SIGNAL LIGHT INTELLIGENT CONTROL SYSTEM BASED ON MICROCONTROLLER
32. DROWSINESS AND GASEOUS FUEL LEAK DETECTOR AND ALERTING SYSTEM
33. INTELLIGENT HIGHWAY POLICE PATROLLING SYSTEM WITH SPEED SENSORS AND CAMERA FOR THE VEHICLES WHICH VIOLATES SPEED LIMITS.
34. ALIVE HUMAN BEING DETECTOR IN WAR FIELDS, AFFECTED AREAS USING WAP WITH MODEL AND CAMERA–PIR (PASSIVE INFRARED SENSORS) FOR RESCUE OPERATIONS WITH COMMUNICATION

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35. AUTOMATIC VEHICLE SPEED, HORN, AND BRAKE MANAGEMENT SYSTEM (WITH ANALYZER – OPTIONAL)
36. UTILIZATION OF SOLAR ENERGY WITH TRACKING THE SUN USING STEPPER MOTOR AUTOMATICALLY.
37. DESIGN & DEVELOPMENT OF SECURITY BASED VOTING SYSTEM FOR GOVERNMENT.
38. GAS LEAKAGE, THIEF AND FIRE DETECTOR & AUTO DIALING CONTROLLER SYSTEM.
39. INDUSTRIAL PROTECTION SYSTEM USING TEMPERATURE, SMOKE SENSORS AND LIGHT DEPENDENT RESISTOR
40. TOKEN NUMBER DISPLAY WITH VOICE IN SECURITY USING MICROCONTROLLER AT89C51.
41. ROOM LIGHT AND FAN CONTROLLER WITH VISITOR'S COUNTER.
  
42. MICROCONTROLLER BASED AERONAUTICAL CRASH PREVENTION SYSTEM THROUGH RF COMMUNICATION
43. AUTOMATIC PLANT WATERING AND TANK LEVEL ALERTING SYSTEM.
44. BLACK BOX FOR VEHICLES/CAR – INTELLIGENT VEHICLE MONITORING SYSTEM.
45. AIRPORT AUTOMATION.
46. ALCOHOLIC ANALYZER AND TILT DETECTOR FOR VEHICLE SECURED IGNITION.
47. BELT CONVOYER WITH PICK AND PLACE AND DIGITAL.
48. COLD BLOOD BANK STORAGE MANAGEMENT SYSTEM.
49. DESIGNING A COMPLETE VEHICLE IMMOBILIZATION SYSTEM INTEGRATED WITH A PERSONALIZED ALERT MECHANISM.
50. PASSENGER PRE-PAID METRO CARD SYSTEM.
51. REMOTE CONTROLLED JACK FOR CARS.

## IEEE TRANSACTIONS ON ROBOTICS

1. PC CONTROLLED UNMANNED FIGHTER (WAR TANKER OR HELICOPTER)
2. KROTO FINDER
3. HAPTIC ROBOTIC ARM
4. QUAD HELICOPTER
5. PC BASED SMALL UNIT UNMANNED VEHICLE FOR TODAY'S ARMY
6. LINE FOLLOWING ROBOT WITH FORK LIFT
7. WALL PAINTING ROBOT
8. WHITE BOARD CLEANING ROBOT
9. INTELLIGENT COMBAT ROBOT FOR MILITARY OPERATIONS
10. OBJECT AVOIDING ROBOT USING ULTRASONIC SENSOR
11. AUTOMATIC VOICE PRONOUNCEMENT BASED ROBOT FIRE PSYCHOANALYTIC SYSTEM
12. CELL PHONE OPERATED LAND ROVER
13. LIGHT/LINE AND DTMF SIGNAL FOLLOWING INTELLIGENT ROBOT
14. AUTO GUIDED VEHICLE WITH MATERIAL HANDLING AND OBSTACLE DETECTION
15. CONTROLLING ROBOTIC ARM WITH ETHERNET
16. FLEX SENSOR OPERATED ROBOTIC ARM
17. STAIRCASE CLIMBING ROBOT
18. WALK AND TALK ROBOT
19. ROPE CLIMBING ROBOT WITH SURVEILLANCE CAPABILITY

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20. LAND MINE DETECTING ROBOTIC VEHICLE
21. OBSTACLE AVOIDANCE ROBOTIC VEHICLE
22. EMBEDDED INTELLIGENT CAPABILITY OF A MODULAR ROBOTIC SYSTEM
23. FIRE EXTINGUISHING OR FIRE FIGHTING ROBOTIC VEHICLE WITH RF TECHNOLOGY
24. MULTIPLE INTERFACE SECURITY ROBOT
25. PIPE INSPECTION ROBOT
26. AUTOMATIC VOICE ANNOUNCEMENT BASED ROBOT FIRE ANALYSIS SYSTEM
27. LIVE HUMAN DETECTING ROBOT FOR EARTH QUAKE RESCUE OPERATION
28. WHEEL CHAIR FOR DISABLED PERSON USING ROBOT
29. IVRS SYSTEM BASED MOBILE CONTROLLING ROBOT
30. SPY ROBOT WITH BOMB DETECTION AND IMAGE MONITORING
31. INDUSTRIAL HAZARDOUS GAS LEAKAGE DETECTION AND INFORMATION SYSTEM USING INTELLIGENT ROBOT.
32. 3 - AXIS CONTROLLED ROBOT
33. IMAGE / VIDEO CAPTURING AND PC TELECASTING ROBOT
34. SOLAR OPERATED ROBOT
35. DESIGN AND DEVELOPMENT OF OBSTACLE SENSING AND OBJECT GUIDING ROBOT
36. ROBOTIC ARM CONTROL THROUGH INTERNET OR LAN FOR PATIENT SURGERY
37. INTELLIGENT LINE FOLLOWER ROBOT FOR INDUSTRIAL PURPOSE
38. ROBOTIC PICK AND PLACE WITH DIGITAL COUNTER
39. BLUE TOOTH CONTROLLED ROBOT
40. ROBOTIC ARM CONTROL THROUGH INTERNET/LAN FOR PATIENT OPERATION WITH ONE OPERATING TOOL.

## IEEE TRANSACTIONS ON GSM

1. GSM BASED HEALTH CARE SYSTEM WITH HEART BEAT, GLUCOSE, TEMPERATURE MONITORING.
2. GSM BASED SECURITY SYSTEM WITH GAS LEAKAGE IDENTIFICATION AND THEFT CONTROLLING
3. GREEN HOUSE MONITORING SYSTEM.
4. GSM BASED WIRELESS NOTICE BOARD
5. MEDIBLACK BOX.
6. SMS BASED DEVICE CONTROL USING GSM MODEM (LIGHT, FAN, MOTOR etc...)
7. GAPS VEHICLE THEFT IDENTIFICATION AND TRACKING AND CONTROL SYSTEM
8. GSM BASED WIRELESS HOME APPLIANCES MONITORING & CONTROL SYSTEM (LIGHT, FAN, MOTOR etc...)
9. HIGHWAY VEHICLE TRAFFIC MONITOR USING GSM
10. HOME SECURITY SYSTEM WITH AUTO DIALING (MISSED CALL OR SMS ALERT USING GSM MODEM)
11. AUTOMATED GSM BASED ELECTRICITY BILLING AND CUT OFF SYSTEM.
12. DATA TRANSFER FOR ADVERTISEMENT DISPLAY OR NOTICE BOARD USING GSM.
13. MULTI PURPOSE SECURITY SYSTEM USING GSM
14. INTELLIGENT RF SECURITY SYSTEM FOR BANKS WITH GSM MODEM & SENSORS.
15. REMOTE BILLING OF ENERGY METER OR WATER METER USING GSM MODEM

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16. TRACKING GOT-STAMP PAPER AND AUTOMATION USING GSM MODEM
17. REAL ECG MACHINE FOR DOCTORS WITH DATA TRANSMISSION THROUGH GSM MODEM
18. DATA ACQUISITION SYSTEM WITH GSM MODEM.
19. SMS BASED WEATHER REPORTING.
20. GSM BASED BORDER SECURITY SYSTEM
21. GSM BASED COMPLETE IRRIGATION SOLUTION.
22. RAILWAY SECURITY MANAGEMENT SYSTEM (BRIDGE VIBRATION DETECTION) BASED ON GSM.
23. INDUSTRIAL MONITOR THROUGH GSM NETWORKS
24. SHORT MESSAGING SYSTEM BASED VOTING SYSTEM USING GSM

### **IEEE BASED PROJECT TITLE**

1. ENHANCING MINE SAFETY WITH WIRELESS SENSOR NETWORKS USING ZIGBEE TECHNOLOGY
2. NEW DESIGN FOR ELECTRONIC BLOOD PRESSURE MONITOR BASED ON GSM MODULE TC35I
3. COMMUNICATING POWER SUPPLIES: BRINGING THE INTERNET TO THE UBIQUITOUS ENERGY GATEWAYS OF ELECTRONIC DEVICES
4. A RECONFIGURABLE SMART SENSOR INTERFACE FOR INDUSTRIAL WSN IN IOT ENVIRONMENT
5. MINIMUM-TIME TRAJECTORY PLANNING AND CONTROL OF A PICK-AND-PLACE FIVE-BAR PARALLEL ROBOT
6. IMPLEMENTING FLEXIBLE AND FAST TURNING MANEUVERS OF A MULTIJOINT ROBOTIC FISH
7. WSN-BASED SMART SENSORS AND ACTUATOR FOR POWER MANAGEMENT IN INTELLIGENT BUILDINGS
8. ENERGY-THEFT DETECTION ISSUES FOR ADVANCED METERING INFRASTRUCTURE IN SMART GRID
9. DATA CLEANING FOR RFID AND WSN INTEGRATION
10. THE GENERIC DESIGN OF A HIGH-TRAFFIC ADVANCED METERING INFRASTRUCTURE USING ZIGBEE
11. ZIGZAG-SHAPED COIL ARRAY STRUCTURE FOR WIRELESS CHIP-TO-CHIP COMMUNICATION APPLICATIONS
12. A PASSIVE RFID TAG EMBEDDED TEMPERATURE SENSOR WITH IMPROVED PROCESS SPREADS IMMUNITY FOR A 30 C TO 60 C SENSING RANGE.
13. HARDWARE DEVELOPMENT AND LOCOMOTION CONTROL STRATEGY FOR AN OVER-GROUND GAIT TRAINER: NATURE-GAITS
14. WIRELESS ENVIRONMENTAL SENSOR NETWORKING WITH ANALOG SCATTER RADIO & TIMER PRINCIPLES
15. PROBABILITY-BASED LOCATION AWARE DESIGN AND ON-DEMAND ROBOTIC INTRUSION DETECTION SYSTEM
16. PUBLIC TRANSPORT TICKETING AND MONITORING SYSTEM
17. INTELLIGENT CARS USING RFID TECHNOLOGY
18. GSM BASED RFID APPROACH TO AUTOMATIC STREET LIGHTING SYSTEM

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19. VEHICLE NAVIGATION AND OBSTACLE DETECTION SYSTEM USING RFID AND GSM
20. WIRELESS MONITORING OF THE GREEN HOUSE SYSTEM USING EMBEDDED CONTROLLERS
21. ZIGBEE AND GSM BASED SECURE VEHICLE PARKING MANAGEMENT AND RESERVATION SYSTEM
22. PROTOTYPE OF WATER LEVEL DETECTION SYSTEM WITH WIRELESS
23. IMPLEMENTATION OF GPS FOR LOCATION TRACKING
24. DESIGN OF AUTO-GUARD SYSTEM BASED ON RFID AND NETWORK
25. DESIGN OF LANDSLIDE WARNING SYSTEM
26. IMPLEMENTATION OF SELF DIAGNOSTIC AND INTELLIGENT POWER MANAGEMENT PROTOCOLS ON WIRELESS GAS SENSOR NODE
27. IMPLEMENTATION OF CAN BUS IN AN AUTONOMOUS ALL TERRAIN VEHICLE DESIGN OF VEHICLE POSITIONING SYSTEM BASED ON ARM
28. DESIGN OF VEHICLE POSITIONING SYSTEM BASED ON ARM
29. SIMULATION OF EARTHQUAKES AND TSUNAMI THROUGH GSM NETWORK
30. GPS BASED VOICE ALERT SYSTEM FOR THE BLIND
31. SECURED WIRELESS COMMUNICATION FOR INDUSTRIAL AUTOMATION AND CONTROL
32. DESIGN AND IMPLEMENTATION OF PYROELECTRIC INFRARED SENSOR BASED SECURITY SYSTEM USING MICROCONTROLLER
33. DESIGN OF AN INTELLIGENT COMBAT ROBOT FOR WAR FIELDS
34. ZIGBEE BASED INDUSTRIAL AUTOMATION PROFILE FOR POWER MONITORING SYSTEMS
35. PIC BASED CUSTOMIZABLE WIRELESS SENSOR NODE TO DETECT HAZARDOUS GAS PIPELINE LEAKAGE
36. DESIGN AND DEVELOPMENT OF MICROCONTROLLER BASED ELECTRONIC QUEUE CONTROL SYSTEMS
37. A MICROCONTROLLER-BASED MULTI-FUNCTION SOLAR TRACKING SYSTEM
38. INTELLIGENT WATER DISPENSER SYSTEM BASED ON EMBEDDED SYSTEMS
39. A MICROCONTROLLER-BASED IR RANGE FINDER SYSTEM WITH DYNAMIC RANGE ENHANCEMENT
40. MONITORING OF BIOMEDICAL SIGNALS USING A MICROCONTROLLER AND A GRAPHIC LCD
41. WIRELESS MEASUREMENT SYSTEM BASED ON ZIGBEE TRANSMISSION TECHNOLOGY
42. MICROCONTROLLER-BASED TWO-AXIS SOLAR TRACKING SYSTEM
43. DESIGN OF INTELLIGENT MOBILE VEHICLE CHECKING SYSTEM BASED ON ARM7
44. WIRELESS VEHICULAR ACCIDENT DETECTION AND REPORTING SYSTEM
45. ADDING NEW FUNCTIONS TO THE REMOTE AIRFIELD LIGHTING SYSTEM
46. AN INTELLIGENT SMS-BASED REMOTE WATER METERING SYSTEM
47. AUTOMATIC METER READING MONITORING SYSTEM BASED ON GSM MODULE
48. DESIGN OF INTELLIGENT TRAFFIC LIGHT CONTROLLER USING EMBEDDED SYSTEMS

## WIRELESS BASED PROJECTS

1. WIRELESS COMMUNICATION FOR FIRE DETECTION SYSTEMS IN COMMERCIAL AREAS INDUSTRIAL AND HOME
2. INVOLUNTARY STATION NAME DISPLAY WITH VOICE ATTENTIVE SYSTEM FOR TRAIN
3. WIRELESS ELECTRONIC VOTING MACHINE

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4. ADVANCED AUTOIMATIC INTELLIGENT TRAIN ENGINE SYSTEM
  5. INDUSTRIAL SECURED TIDY SMOKE DETECTION AND ALARM SYSTEM THROUGH WIRELESS
  6. WIRELESS TSUNAMI WARNING ALARM FOR PEOPLE SECURITY
  7. VEHICLE ACCIDENT PREVENTION USING EYE BLINK SENSOR USING WIRELESS COMMUNICATION
  8. AUTOMATIC VEHICLE OVER SPEED CONTROLLING SYSTEM FOR SCHOOL ZONE AND HORN CONTROLLER FOR HOSPITAL ZONE.
  9. AUTOMATED RAILWAY GATE LEVEL CROSSING SCRUTINIZE AND CONTROL SYSTEM
  10. WIRELESS BUS STOP INFORMATION PROVIDER SYSTEM FOR PASSENGERS AND STATION ANNOUNCEMENTS.
  11. FACILITATE TRAFFIC SIGNAL IDENTIFICATION FOR BLIND PEOPLE

### **SMART CARD/ RFID BASED PROJECTS**

1. RFID BASED TRAIN IDENTIFICATION AND RAILWAY CROSSING SYSTEM
2. AUTOMATIC ACCIDENT IDENTIFICATION, DETECTION VIA VIBRATION SENSORS USING RF TECHNOLOGY
3. RFID BASED FILE TRACING SYSTEM FOR BIG GOVERNMENT ORGANIZATIONS.
4. RFID BASED ATTENDANCE CARD SYSTEM
5. LUGGAGE TRACKING SYSTEM USING RFID
6. AUTOMATED AND UNMANNED VEHICLE TOLL COLLECTION / PARKING SYSTEM USING RFID TECHNOLOGY
7. RFID BASED HUMAN / VEHICLE DETECTION AND MONITORING SYSTEM
8. RFID BASED VEHICLE IDENTIFICATION AND SPEED MEASUREMENT
9. PC BASED DOOR ACCESS AND ATTENDANCE LOGGER USING RFID
10. ROUTING, GUIDING, OBSTACLE DETECTING AND CONTROLLING OF VEHICLE USING ACTIVE RFID TECHNOLOGY
11. RFID BASED EMPLOYEE DATABASE MANAGEMENT USING RTC
12. RFID BASED BLIND MAN STICK
13. RFID BASED EVENT TRACKING SYSTEM FOR SPORTS
14. STUDENT ATTENDANCE SYSTEM USING RFID TECHNOLOGY & VB.NET
15. PREPAID ENERGY METER USING RFID.
16. PREPAID CARD FOR BROWSING CENTER USING RFID.
17. PREPAID CARD FOR PETROL BUNK.
18. AUTOMATIC CAR PARKING SYSTEM.
19. DOOR OPENING AND CLOSING SYSTEM WITH SECURITY USING RFID.
20. VOTER CREDENTIALS AND AUTHENTICATION SYSTEM USING RFID TECHNOLOGY
21. THEFT IDENTIFICATION SYSTEM FOR SUPERMARKETS USING RFID
22. METRO TRAIN (TICKET ANALYZER)

### **BIO-METRIC / BIO-MEDICAL BASED PROJECTS**

1. FINGER PRINT PREDICTION ENABLED PASSPORT AUTHENTICATION SYSTEM

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2. INVOLUNTARY,BIOMETRIC DOOR ACCESS CONTROL AND ATTENDANCE MAINTENANCE SYSTEM
3. HIGH PROTECTION SECURITY SYSTEM WITH BIOMETRIC AND VIDEO TRANSMISSION
4. BIO METRIC RECOGNITION SYSTEM BASED DIGITAL VOTING MACHINE
5. ELECTRONIC LIBRARY MANAGEMENT SYSTEM USING FINGER PRINT SENSOR
6. PATIENT MEDICAL INFORMATION SYSTEM USING FINGER PRINT
7. FINGER PRINT PREDICTION ENABLED PASSPORT AUTHENTICATION SYSTEM
8. INVOLUNTARY,BIOMETRIC DOOR ACCESS CONTROL AND ATTENDANCE MAINTENANCE SYSTEM
9. IVRS BASED AUTOMATIC TELLER MACHINE TRANSACTION SYSTEM WITH THE HELP OF RFID TECHNOLOGY FOR BLIND PEOPLE WITH BIOMETRIC AUTHENTICATION \*\*
10. HIGH PROTECTION ATM SYSTEM WITH FINGER PRINT IDENTIFICATION TECHNOLOGY WITH IMAGE RECORD AND GSM
11. MEMS BASED PC COMMANDS USING HAND SIGNALS
12. REALTIME IMPLWMWNTATION OF BIOPAD FINGER PRINT ATTENDANCE MONITOR.

## CAN PROTOCOL BASED PROJECTS

1. CAN BASED REAL TIME IMPLEMENTATION IN AUTOMOBILE APPLICATION
2. CAN CONTROLLED SERVO METER (INDUSTRIAL MOTOR)WITH CONTACTLESS PROXIMITY SENSOR.
3. INDUSTRIAL AUTOMATION USING CAN NETWORK.
4. IMPLEMENTATION OF AIR BAG SENSOR USING CAN PROTOCOL WITH GSM TECHNOLOGY
5. IMPLEMENTATION OF A CAN BASED DIGITAL DRIVING SYSTEM FOR A VEHICLE
6. COMPLETE HOME AUTOMATION USING CAN PROTOCOL.

## GPS BASED PROJECTS

1. OFFLINE MONITORING OF ADVERTISEMENT WORDINGS USING GSM AND GPS WITH LASER SECURITY SYSTEM
2. GPS MAP USING REAL GPS RECEIVER WITH LICENSE FOR DEFENSE
3. SOLDIER TRACKING SYSTEM USING GPS AND GSM MODEM
4. GSM BASED ON LINE TOLL FEE PAYMENT SYSTEM
5. ON LINE VEHICLE ACCIDENT REPORTER (GSM AND GPS)
6. GPS BASED STATION ANNOUNCEMENT SYSTEM FOR RAILWAY NETWORKS GPS BASED ON-LINE VEHICLE TRACKING SYSTEM
7. ANTI-COLLISION SYSTEM IN RAILWAY USING GSM AND GPS
8. WEB BASED VEHICLE REMOTE CONTROL USING GSM/GPRS I.E..VERY ADVANCED SYSTEM FOR DEVELOPMENT USING MICRO CONTROLLER AND GPRS TECHNOLOGY.
9. ACCIDENT IDENTIFICATION USING GPS AND SEND SMS THROUGH GSM TO A MOBILE
10. LIVE HUMAN DETECTION AND TRACKING USING GPS AND SEND SMS THROUGH GSM TO A MOBILE

## MICROCONTROLLER BASED ELECTRICAL

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1. TRANSMISSION LINE MULTIPLE FAULTS DETECTION AND INDICATION TO ELECTRICITY BOARD
2. 6.6-KW ONBOARD CHARGER DESIGN USING DCM PFC CONVERTER WITH HARMONIC MODULATION TECHNIQUE AND TWO-STAGE DC/DC CONVERTER
3. A CASCADED MULTILEVEL INVERTER BASED ON SWITCHED-CAPACITOR FOR HIGH-FREQUENCY AC POWER DISTRIBUTION SYSTEM
4. A FAMILY OF EXPONENTIAL STEP-DOWN SWITCHED-CAPACITOR CONVERTERS AND THEIR APPLICATIONS IN TWO-STAGE CONVERTERS
5. A HALF-BRIDGE LLC RESONANT CONVERTER ADOPTING BOOST PWM CONTROL SCHEME FOR HOLD-UP STATE OPERATION
6. A NOVEL SINGLE-SWITCH RESONANT POWER CONVERTER FOR RENEWABLE ENERGY GENERATION APPLICATIONS
7. AN IMPROVED LAYOUT STRATEGY FOR COMMON-MODE EMI SUPPRESSION APPLICABLE TO HIGH-FREQUENCY PLANAR TRANSFORMERS IN HIGH-POWER DC/DC CONVERTERS USED FOR ELECTRIC VEHICLES
8. AN IMPROVED ZVT-ZCT PWM DC-DC BOOST CONVERTER WITH INCREASED EFFICIENCY
9. BOOST-DERIVED HYBRID CONVERTER WITH SIMULTANEOUS DC AND AC OUTPUTS
10. UNIVERSAL DIGITAL CONTROLLER FOR BOOST CCM POWER FACTOR CORRECTION STAGES BASED ON CURRENT REBUILDING CONCEPT
11. A SIX-PHASE CURRENT RECONSTRUCTION SCHEME FOR DUAL TRACTION INVERTERS IN HYBRID ELECTRIC VEHICLES WITH A SINGLE DC-LINK CURRENT SENSOR
12. A LOW COMPLEXITY CONTROL SYSTEM FOR A HYBRID DC POWER SOURCE BASED ON ULTRACAPACITOR-LEAD-ACID BATTERY CONFIGURATION
13. ELECTRICAL SUBSTATION SCRUTINIZING AND CONTROLLING DEVICE FROM REMOTE AREA
14. WIRELESS POWER TRANSMISSION
15. BELT CONVEYOR SYSTEM WITH PICK AND PLACE AND DIGITAL COUNTER
16. DC MOTOR SPEED CONTROL USING BLUETOOTH
17. ANDROID MEETS LED BULBS IN SMART-HOME AUTOMATION.
18. TRANSFORMER INDUSTRIAL PARAMETERS MANAGEMENT CONTROL SYSTEM AND INTIMATION TO ELECTRICITY BOARD
19. AUTOMATIC ENERGY CALCULATION AND BILLING SYSTEM TO EB
20. REALIZATION OF PREPAID BILL MANAGEMENT SYSTEM FOR ELECTRICITY BOARD
21. VOICE OPERATED INDUCTION MOTOR SPEED CONTROL THROUGH RF COMMUNICATION
22. ONLINE SPEED CONTROL OF DC MOTOR WITH HIGH SPEED NETWORK
23. MICROCONTROLLER BASED MEASUREMENT OF CURRENT, VOLTAGE, POWER FACTOR AND TEMPERATURE FOR INDUSTRIAL APPLICATIONS
24. TALKING ENERGY METER
25. INVOLUNTARY TEMPERATURE LEVEL SCRUTINIZING AND CONTROLLING SYSTEM FOR INDUSTRIAL BOILER
26. DIGITAL ENERGY METER WITH SERIAL INTERFACE FOR INDUSTRIES
27. IMPLEMENTATION OF SOLAR CELL TRACING SYSTEM FOR THE MAXIMUM UTILIZATION OF SOLAR POWER AND ILLUMINATION
28. MICRO CONTROLLER BASED INTELLIGENT MULTI TIMER SYSTEM FOR INDUSTRIAL AUTOMATION.
29. ENERGY SCRUTINING SYSTEM WITH AUTO LOAD

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30. SMART CARD BASED PREPAID ELECTRICITY BILLING
  31. ENERGY-SAVER (ANTI-SWEAT HEATER) SWITCH FOR REFRIGERATOR
  32. AUTO DIGITAL-SPEED INDICATOR WITH SPEED CONTROL
  33. DC MOTOR SPEED CONTROLLING USING BLUETOOTH
  34. AN I2C NETWORK PROTOCOL FOR ENVIRONMENTAL MONITORING
  35. BIDIRECTIONAL OPEN LOOP STEPPER MOTOR SPEED CONTROL BY USING PIC MICROCONTROLLER
  36. LOW COST PRECISION DIGITAL ENERGY METER AND COST INDICATOR
  37. INDUSTRIAL AUTOMATION USING CAN NETWORK.
  38. CAN CONTROLLED SERVO MOTOR (INDUSTRIAL MOTOR) WITH CONTACTLESS PROXIMITY SENSOR.
  39. AUTOMATIC DC MOTOR SPEED CONTROL WITH AUTOMATIC FEEDBACK VIA SMS USING PWM TECHNOLOGY
  40. GSM AND PIR SENSOR BASED LIGHT CONTROLLER AND NETWORKED SAFETY SYSTEM.
  41. ELECTRIC FIELD AND ULTRASONIC SENSOR BASED SECURITY SYSTEM
  42. MOBILE CONTROLLED DC MOTOR SPEED CONTROLLER.
  43. PRE PAID POWER ENERGY METER.
  44. REAL TIME LOAD SHEDDING FOR POWER LINES.
  45. A NOVEL OPTIMUM POINT TRACKER OF THE SOLAR CELL POWER SUPPLY SYSTEM.

### **ZIGBEE BASED PROJECTS**

1. REMOTE MONITORING OF CAR ENGINE USING CAN AND ZIGBEE PROTOCOLS
2. SOLAR POWER - ZIGBEE BASED WATER PUMP CONTROL FOR FARMERS WITH SECURITY
3. ZIGBEE BASED INTELLIGENT RF SECURITY SYSTEM FOR CARS WITH LCD
4. ROBOTIC ARM BASED VEHICLE WITH FOUR WHEEL DRIVE FOR SPECIFIC OPERATION WITH VARIABLE SPEED CONTROL, CONTROLLING THE ROBOTIC ARM AND THE VEHICLE THROUGH ZIGBEE.
5. KROTO FINDER
6. REMOTE-CONTROLLABLE AND ENERGY-SAVING ROOM ARCHITECTURE BASED ON ZIGBEE COMMUNICATION
7. ZIGBEE DEVICE ACCESS CONTROL & RELIABLE DATA TRANSMISSION IN ZIGBEE BASED HEALTH MONITORING SYSTEM
8. REMOTE POWER ON/OFF CONTROL & CURRENT MEASUREMENT FOR HOME ELECTRIC OUTLETS BASED ON A LOW POWER EMBEDDED BOARD & ZIGBEE COMMUNICATION
9. DEVELOPMENT OF AUTOMATED TOLLING SYSTEM FOR VEHICLE.

### **CAPSENSE, TOUCH SENSE**

1. TOUCH SCREEN BASED WIRELESS CONTROL SYSTEM
2. TENS- TINY ELECTRONIC SHOCK MACHINE FOR PATIENT USING CAP SENSE
3. TRANSCUTANEOUS ELECTRICAL NERVE STIMULATOR

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4. TOUCH PAD CONTROLLED WHEELCHAIR USING CAPSENSE TO SOLVE REAL WORLD PROBLEMS BY DISABLES
5. CAP SENSE BASED WIRELESS ROBOTIC CONTROLL.
6. MULTICHANNEL LED DIMMER WITH CAPSENSE CONTROL
7. INVISIBLE SENSITIVITY BASED SECURED PASSWORD PROTECTION FOR BANK
8. WIRELESS TOUCHPAD REMOTE CONTROL FOR INDUSTRIAL DEVICE CONTROL

### **VLSI BASED PROJECTS**

1. AREA-EFFICIENT PARALLEL FIR DIGITAL FILTER STRUCTURES FOR SYMMETRIC CONVOLUTIONS BASED ON FAST FIR ALGORITHM
2. DESIGN OF AN ERROR DETECTION AND DATA RECOVERY ARCHITECTURE FOR MOTION ESTIMATION TESTING APPLICATIONS
3. LOW-POWER AND AREA-EFFICIENT CARRY SELECT ADDER
4. HIGH-ACCURACY FIXED-WIDTH MODIFIED BOOTH MULTIPLIERS FOR LOSSY APPLICATIONS
5. DESIGN OF LOW-ERROR FIXED-WIDTH MODIFIED BOOTH MULTIPLIER
6. AN EFFICIENT IMPLEMENTATION OF FLOATING POINT MULTIPLIER

### **MATLAB BASED PROJECTS**

1. A TRANSMIT DIVERSITY TECHNIQUE FOR WIRELESS COMMUNICATION
2. SCENE TEXT RECOGNITION IN MOBILE APPLICATIONS BY CHARACTER DESCRIPTOR AND STRUCTURE CONFIGURATION
3. MINING WEAKLY LABELED WEB FACIAL IMAGES FOR SEARCH-BASED FACE ANNOTATION
4. EXPOSING DIGITAL IMAGE FORGERIES BY ILLUMINATION COLOR CLASSIFICATION
5. DIGITAL IMAGE SHARING BY DIVERSE IMAGE MEDIA
6. AN EFFICIENT PARALLEL APPROACH FOR SCLERA VEIN RECOGNITION
7. DUAL-GEOMETRIC NEIGHBOR EMBEDDING FOR IMAGE SUPER RESOLUTION WITH SPARSE TENSOR
8. A UNIFIED DATA EMBEDDING AND SCRAMBLING METHOD
9. DESIGNING AN EFFICIENT IMAGE ENCRYPTION-THEN-COMPRESSION SYSTEM VIA PREDICTION ERROR CLUSTERING AND RANDOM PERMUTATION
10. FINGERPRINT COMPRESSION BASED ON SPARSE REPRESENTATION
11. PROGRESSIVE IMAGE DENOISING THROUGH HYBRID GRAPH LAPLACIAN REGULARIZATION: A UNIFIED FRAMEWORK
12. A NEW SECURE IMAGE TRANSMISSION TECHNIQUE VIA SECRET-FRAGMENT-VISIBLE MOSAIC IMAGES BY NEARLY REVERSIBLE COLOR TRANSFORMATIONS
13. AUTOMATIC VEHICLE IDENTIFICATION BYNUMBER PLATE RECOGNITION.

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