



MAGNI5™
Technology Solutions Pvt. Ltd.

PROJECT DEVELOPMENT
AND R & D CENTRE
@ Ameerpet @L.B. Nagar

EMBEDDED SYSTEMS MINI PROJECT LIST 2017-18

IOT BASED PROJECTS

- IOT.1. Automatic plant irrigation based on soil moisture and monitoring over IoT
- IOT.2. Heart beat and body temperature monitoring over IoT
- IOT.3. Greenhouse monitoring and weather reporting over IoT (Rain, atmospheric temp and Humidity)
- IOT.4. Remote industrial devices control over IoT
- IOT.5. Petrol dispensing station level monitoring using magnetic sensors and reporting over IoT
- IOT.6. IoT solutions for smart cities: Garbage dustbin management system and reporting to municipal authorities over IoT
- IOT.7. Smart cities: Traffic data monitoring over IoT for easy transportation / alternative route selection
- IOT.8. Underground cable fault distance identifier over internet of things (IoT) platform
- IOT.9. PV solar panel grid and battery voltage monitoring over IoT
- IOT.10. Visitor counters for museums and data posting to IoT
- IOT.11. Dam gate level monitoring for water resource analysis and dam gate control over IoT
- IOT.12. Industrial data acquisition and controlling system using over IoT
- IOT.13. Industrial automation over IOT
- IOT.14. IOT based Smart Roads Intelligent Highways with warning messages and diversions according to climate conditions and unexpected events like accidents or traffic jams.

IOT.15. IOT based Smart Lighting Intelligent and weather adaptive lighting in street lights for efficient use of power.

IOT.16. IOT Based Mine detection Robot.

IOT.17. IOT Based Forest Fire Detection and Fire Controlling Robot.

IOT.18. IOT Based underground Coal Mine Monitoring and alerting Robot.

IOT.19. IOT Based Industrial Broiler temperature monitoring and alerting system.

IOT .20 IOT Based Home Automation.

IOT.21 IOT Based Industrial Security System.

IOT.22 IOT Based Smart Environmental parameters monitoring system.

IOT 23. IOT based underground cable fault detection system.

IOT 24. IOT Based Irrigation Control system.

- 1)** Remote Controlled Robot Using the Android Applications
- 2)** Railway Level Crossing Gate Operation Using Remote
- 3)** Password Based Remote Controlled Door Opening System Using Android Applications
- 4)** Metal Detection Robotic Vehicle
- 5)** Pick N Place Robotic Arm Controlled by Wireless Android Applications
- 6)** Remote Password Operated Security Control by Android Applications
- 7)** Remotely Operated Fire Fighting Robot by Android Applications
- 8)** Remote Speed Control of DC Motor by Android Applications
- 9)** Remote Controlled Home Automation Using Android Applications
- 10)** Remotely Controlled Android Based Electronic Notice Board
- 11)** Remote Operated Domestic Appliances Control by Using Android Application
- 12)** Remote Operated AC Power Control with LCD Display Using Android Applications

- 13)** Remote Operated Density Based Auto Traffic Signal Control with Android Applications
- 14)** Android Phone Surveillance System
- 15)** Environment Sensing Using Smartphone
- 16)** Portable Heart Rate Detector based on Photoplethysmography with Android Programmable Devices.
- 17)** Research and Design of Chatting Room System based on Android Bluetooth
- 18)** Fall Detection Based on Movement and Smart Phone Technology
- 19)** Bluetooth Car Control Realization by Android Equipment
- 20)** Decentralized Smartphone based Traffic Information System
- 21)** Android based Emergency Alarm and Healthcare Management System
- 22)** Automatic Brightness Control of Handheld Device Display with Low Illumination
- 23)** Collection of Earthquake Disaster Area Information Using Smart Phone
- 24)** Smart Remote Control for Android based TV
- 25)** Propeller Display Of Time / Message
- 26)** Wireless Heart Attack Detector Using GSM
- 27)** A Wireless Vending Machine System Based On GSM
- 28)** Automatic Meter Reading System Using GSM
- 29)** GSM Controlled Robot Using DTMF Technology By Voice Call
- 30)** Industrial automation with feedback control system using DTMF GSM Technology
- 31)** SMS based AC Control.
- 32)** Intrusion Detection Using RFID with password by GSM
- 33)** Microcontroller and GSM based Automatic irrigation control.
- 34)** GSM based wireless substation Fuse blown indicator
- 35)** Design of solar tracking energy system.
- 36)** Home appliances monitoring and controlling system using GSM with fencing auto alerts

- 37)** Automated Electric Billing System
- 38)** Home appliance control with security system.
- 39)** SMS based weather monitoring system.
- 40)** GSM based school children security system based on RFID.
- 41)** SMS based notice board using GSM & LCD with period bell
- 42)** Security Integrated system based on wireless access protocol for industrial Applications with SMS alert system using GSM modem
- 43)** Phase irrigation motor monitoring and Auto-controlling based on GSM Technology
- 44)** GSM based pre-paid Energy Meter with low balance alert
- 45)** UPS battery monitoring system over GSM for high availability Systems (Banking/finance/medical etc)
- 46)** Advanced Real time Remote LED scrolling notice board using GSM with SMS
- 47)** GSM mobile phone based automobile security system
- 48)** SMS based security system
- 49)** Call based home appliance controller
- 50)** Security breach information for unauthorized entry based on mobile
- 51)** Post paid Energy mater using GSM
- 52)** Solar based cell phone charger with coin pay system
- 53)** Statistical analysis of weather forecasting in outdoor game stadiums
- 54)** Development of remote monitoring system for cold storage (ieee)
- 55)** Remote accident report system for high-ways using rf communication.
- 56)** GSM Based Industrial Fault Diagnose
- 57)** Daily SMS report based prepaid energy meter
- 58)** Microcontroller based embedded closed loop feedback control system using GSM technology
- 59)** RFID based Passport Details
- 60)** Application Fields of RFID in Health Safety and Environment Management
- 61)** Blind Stick with Audio Interface.

- 62)** RFID Instrumentation in a Field Application
- 63)** RFID Security Access Control System
- 64)** The Electronic Passport and the Future of Government Issued RFID based Identification
- 65)** RFID based Electronic Passport System
- 66)** RFID Security Access Control System
- 67)** RFID based Attendance System
- 68)** Smartcard based Access Control System
- 69)** RFID based Airport Luggage Security Scanning System
- 70)** Smartcard based Electronic Passport System
- 71)** RFID based Banking System
- 72)** RFID based Health Care system
- 73)** RFID based Bus Indicator
- 74)** RFID based Toll Booth Automation
- 75)** RFID based Unmanned Petrol Pump
- 76)** RFID based Shopping cart
- 77)** RFID based Pre-Paid Energy Meter
- 78)** RFID based Bus Announcement System for Blind
- 79)** RFID based Device Control And Authentication
- 80)** RFID based Intelligent Books Shelving System
- 81)** RFID based Equipment/Personnel Tracking in Hospitals
- 82)** RFID based Automatic Toll Tax Deduction System
- 83)** RFID based Electronic Road Pricing for Controlling the Traffic
- 84)** RFID based Event Tracking System for Sports
- 85)** RFID based Parts Tracking System for Manufacturing
- 86)** RFID based Prepaid Energy Meter with Recharge Option
- 87)** RFID based Railway Platform to Display Exact Position of Each Coach
- 88)** RFID based Railway Reservation
- 89)** Bus Fare Pay System for Passengers
- 90)** Medi-card for Patients
- 91)** RFID Enabled Passport Verification

- 92)** RFID Enabled Voter-ID
- 93)** RFID based Ration Card
- 94)** RFID based Voting Machine