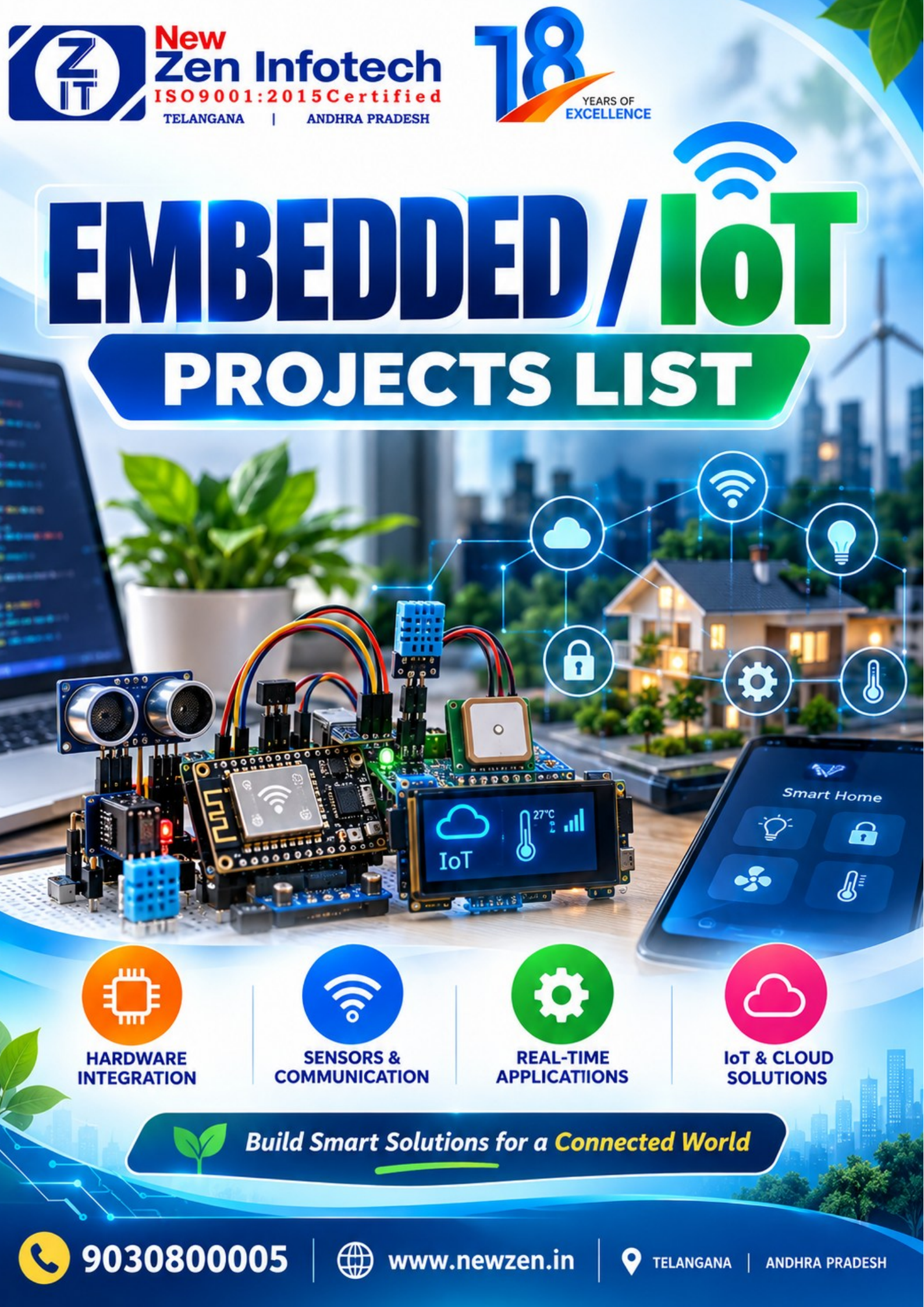




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# EMBEDDED / IoT

## PROJECTS LIST



**HARDWARE  
INTEGRATION**



**SENSORS &  
COMMUNICATION**



**REAL-TIME  
APPLICATIONS**



**IoT & CLOUD  
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## EMBEDDED & IOT PROJECT TITLES - 2027

| S.No | PROJECT TITLE                                                      | DOMAIN           |
|------|--------------------------------------------------------------------|------------------|
| 1    | Soil Sampling Robot for Agriculture Analysis                       | Agriculture      |
| 2    | AI-Based Weed Detection System for Farmlands                       | Agriculture      |
| 3    | Smart Irrigation Scheduler Using AI and Weather API                | Agriculture      |
| 4    | IoT-Based Smart Poultry Farm Monitoring                            | Agriculture      |
| 5    | Smart Irrigation using Google Firebase and ESP8266                 | Agriculture      |
| 6    | Image-Based Soil Type Classification for Smart Farming             | Agriculture      |
| 7    | Soil pH and Nutrient Monitoring System with IoT                    | Agriculture      |
| 8    | IoT-Based Crop Maturity Monitoring using AI                        | Agriculture      |
| 9    | Smart Fertilizer Sprayer using GPS and Soil Type Detection         | Agriculture      |
| 10   | Smart Irrigation System using Soil Moisture and Weather Prediction | Agriculture      |
| 11   | AI-Powered Crop Disease Detection using Leaf Sensors               | Agriculture      |
| 12   | RFID Attendance System with SMS Alerts                             | Education        |
| 13   | Smart E-Library Management System with RFID                        | Education        |
| 14   | School Bus Safety Tracking System with RFID Attendance             | Education        |
| 15   | Smart School Attendance and Notification System                    | Education        |
| 16   | IoT-Based Solar Power Monitoring System with Voltage Sensor        | Environment      |
| 17   | IoT-Based Noise Pollution Monitoring System                        | Environment      |
| 18   | IoT-Based Lecture Hall Air Quality Monitoring                      | Environment      |
| 19   | Real-Time Air Quality Monitoring using MQ135 Sensor                | Environment      |
| 20   | NodeMCU-Based ThingSpeak Weather Monitoring System                 | Environment      |
| 21   | Smart Pollution-Free Stove Monitoring System                       | Environment      |
| 22   | Smart Solar Tracker with Real-Time Monitoring                      | Environment      |
| 23   | Solar-Powered Smart Pest Repeller with Motion Detection            | Environment      |
| 24   | Solar-Powered Smart Ventilation System                             | Environment      |
| 25   | Portable Weather Station using Arduino and DHT11                   | Environment      |
| 26   | Smart Solar Insect Repellent System using Ultrasonic               | Environment      |
| 27   | Smart Dustbin Overflow Monitoring using Ultrasonic and GSM         | General Embedded |
| 28   | Automatic Rainwater Harvesting Control System                      | General Embedded |
| 29   | Smart Luggage Tracker with GPS and GSM                             | General Embedded |
| 30   | Smart Cup with Temperature Display                                 | General Embedded |
| 31   | Machine Learning-Driven Smart Agriculture Monitor                  | General Embedded |
| 32   | Water Level Controller for Tanks with Buzzer and App Alerts        | General Embedded |
| 33   | Automatic Hand Sanitizer Dispenser using IR Sensor                 | General Embedded |
| 34   | Pet Feeding System using Timer and Servo Motor                     | General Embedded |

|    |                                                               |                  |
|----|---------------------------------------------------------------|------------------|
| 35 | AI-Based Garbage Classification using Camera and OpenCV       | General Embedded |
| 36 | Intruder Detection System using ESP32-CAM and Motion Sensor   | General Embedded |
| 37 | Raspberry Pi-Based Object Recognition and Alert System        | General Embedded |
| 38 | Facial Recognition Door Unlock System                         | General Embedded |
| 39 | Forest Animal Intrusion Detection System with Camera Alert    | General Embedded |
| 40 | ESP32-CAM Based License Plate Recognition System              | General Embedded |
| 41 | Vibration-Based Fault Detection in Motors                     | General Embedded |
| 42 | Chemical Leak Detection System using MQ Sensors               | General Embedded |
| 43 | Smart Water Purifier with TDS Monitoring and Alerts           | General Embedded |
| 44 | Smart Water Heater with Wi-Fi Scheduling                      | General Embedded |
| 45 | Smart Refrigerator Status and Inventory System                | General Embedded |
| 46 | Smart First Aid Kit with Supply Monitoring and Alert          | General Embedded |
| 47 | AI-Driven Skin Disease Detection Using Embedded Camera        | General Embedded |
| 48 | Real-Time Body Hydration Monitoring System                    | General Embedded |
| 49 | Smart Glove for Speech-Impaired People (Sign to Text)         | General Embedded |
| 50 | Wi-Fi Sniffer-Based Intruder Detector                         | General Embedded |
| 51 | Smart Agro Drone with Pesticide Spraying Control              | General Embedded |
| 52 | Smart Baby Cradle with Rocking and Sound Detection            | General Embedded |
| 53 | Smart Notice Board using Wi-Fi and LCD                        | General Embedded |
| 54 | Coin-Based Mobile Charging System using Arduino               | General Embedded |
| 55 | Motion-Activated Surveillance Camera using ESP32-CAM          | General Embedded |
| 56 | Smart Helmet with Accident Alert and Live GPS Tracking        | General Embedded |
| 57 | Automatic Headlight Control Based on Ambient Light            | General Embedded |
| 58 | Underground Cable Fault Detection using Arduino               | General Embedded |
| 59 | Smart Bike Anti-Theft Lock with GSM & GPS                     | General Embedded |
| 60 | Smart Table Lamp with Touch and Gesture Control               | General Embedded |
| 61 | Smart Water Quality Monitoring for Lakes                      | General Embedded |
| 62 | Pet Activity Tracker using ESP32                              | General Embedded |
| 63 | Smart Public Toilet Monitoring System with Sensor Integration | General Embedded |
| 64 | Smart Street Light using LDR and Motion Detection             | General Embedded |
| 65 | Gesture-Controlled Wheelchair using Accelerometer             | General Embedded |
| 66 | Smart Trash Bin with Overflow Alert using Ultrasonic Sensor   | General Embedded |
| 67 | Smart Laundry Management System with Cycle Alert              | General Embedded |
| 68 | Real-Time Water Quality Monitoring System using TDS & pH      | General Embedded |
| 69 | Smart Contactless Thermometer with LCD Display                | General Embedded |
| 70 | Bluetooth-Controlled Wheelchair with Voice Recognition        | General Embedded |
| 71 | Wireless Body Temperature Monitoring using ESP32              | General Embedded |
| 72 | Fall Detection and Alert System for Elderly Using Arduino     | General Embedded |
| 73 | Smart Medicine Box with Reminder and Real-Time Monitoring     | General Embedded |

|     |                                                                |                  |
|-----|----------------------------------------------------------------|------------------|
| 74  | Smart Beehive Monitoring with Temperature and Humidity Control | General Embedded |
| 75  | LoRa-Based Agricultural Field Monitoring                       | General Embedded |
| 76  | Campus Safety Monitoring using ESP32-CAM                       | General Embedded |
| 77  | Automated Toll Collection using RFID                           | General Embedded |
| 78  | Smart Light Automation Based on Occupancy and LDR              | General Embedded |
| 79  | Driver Drowsiness Detection System with Eye Blink Sensor       | General Embedded |
| 80  | Blind Spot Monitoring System using Ultrasonic Sensors          | General Embedded |
| 81  | Accident Detection and Alert System using GPS and GSM          | General Embedded |
| 82  | Smart Watch for Children with SOS and Location                 | General Embedded |
| 83  | GSM & GPS-Based Tracker for Remote Assets                      | General Embedded |
| 84  | Smart Key Tracker using Bluetooth Low Energy (BLE)             | General Embedded |
| 85  | Smart Helmet with Ignition Control and Alcohol Detection       | General Embedded |
| 86  | LoRa-Based Flood Level Monitoring and Alert System             | General Embedded |
| 87  | AI-Powered Smart Compost Monitoring                            | General Embedded |
| 88  | ESP32 + Blynk Based Smart Light Controller                     | General Embedded |
| 89  | Anti-Sleep Alert for Drivers using Vibration and Pulse Sensor  | General Embedded |
| 90  | IoT-Based Conveyor Belt Health Monitoring                      | Healthcare       |
| 91  | IoT-Based Hospital Bed Monitoring System                       | Healthcare       |
| 92  | Wearable Health Monitoring Band using Raspberry Pi Pico W      | Healthcare       |
| 93  | Child Temperature and Health Monitoring Patch with BLE         | Healthcare       |
| 94  | IoT-Based Patient Health Monitoring System (Pulse, Temp, ECG)  | Healthcare       |
| 95  | Cow Health and Activity Tracker using IoT                      | Healthcare       |
| 96  | Wearable Fall Detection Band for Parkinson's Patients          | Healthcare       |
| 97  | Home Automation Using Telegram Bot and ESP8266                 | Home Automation  |
| 98  | Voice-Controlled Home Automation using Alexa and ESP32         | Home Automation  |
| 99  | Smart Door Lock System using RFID and IoT                      | Home Automation  |
| 100 | Smart Home Energy Monitoring using Current Sensors             | Home Automation  |
| 101 | IoT-Based Automatic Room Sanitizer using Servo and Sensors     | Home Automation  |
| 102 | Password-Protected Smart Door Lock with IoT Integration        | Home Automation  |
| 103 | IoT-Based Smart Mirror with Live Weather and News Updates      | Home Automation  |
| 104 | Automatic Room Freshener Dispenser with Motion Sensor          | Home Automation  |
| 105 | Smart Mirror with AI-Based Voice Assistant                     | Home Automation  |
| 106 | Smart Mushroom Cultivation Monitoring System                   | Home Automation  |
| 107 | Mobile-Controlled Room Cooler with Temperature Display         | Home Automation  |
| 108 | IoT-Based Home Delivery Robot with Live Location               | Home Automation  |
| 109 | Home Delivery Box with Real-Time Notification                  | Home Automation  |
| 110 | Voice Recognition-Based Home Automation using AI               | Home Automation  |
| 111 | Home Security System with Facial Recognition using ESP32-CAM   | Home Automation  |

|     |                                                              |                       |
|-----|--------------------------------------------------------------|-----------------------|
| 112 | Noise Hazard Warning System for Factory Workers              | Industrial Automation |
| 113 | GSM-Controlled Industrial Load Control System                | Industrial Automation |
| 114 | Smart Industrial Freezer with IoT Data Logger                | Industrial Automation |
| 115 | Smart Factory Lighting System using Motion Sensors           | Industrial Automation |
| 116 | Industrial Machinery Utilization Tracker using Sensors       | Industrial Automation |
| 117 | ZigBee-Based Industrial Fault Detection System               | Industrial Automation |
| 118 | IoT + Blockchain-Based Data Integrity System                 | IoT Systems           |
| 119 | IoT-Based Smart Locker System with OTP Access                | IoT Systems           |
| 120 | IoT-Based Water Conservation in Hostels                      | IoT Systems           |
| 121 | Automated Aquarium System with IoT-Based Alerts              | IoT Systems           |
| 122 | IoT-Based Noise Level Tracker for City Zones                 | IoT Systems           |
| 123 | IoT-Based Wind Turbine Monitoring System                     | IoT Systems           |
| 124 | IoT-Based Blind Corner Accident Prevention System            | IoT Systems           |
| 125 | MQTT-Based Real-Time Notification System                     | IoT Systems           |
| 126 | IoT-Based Smart Street Water Leakage Detection               | IoT Systems           |
| 127 | IoT-Based Online Proctoring System using Camera and Sensors  | IoT Systems           |
| 128 | IoT-Based File Transfer Locking System using RFID            | IoT Systems           |
| 129 | IoT-Based Research Lab Monitoring with Access Control        | IoT Systems           |
| 130 | Cloud-Based Access Control System for Offices                | IoT Systems           |
| 131 | IoT Device Configuration and Management via Mobile App       | IoT Systems           |
| 132 | Smart Notice Board Controlled via IoT                        | IoT Systems           |
| 133 | Remote Lab Equipment Controller using IoT                    | IoT Systems           |
| 134 | IoT-Based Power Factor Monitoring System                     | IoT Systems           |
| 135 | Energy Usage Monitor and Smart Metering with IoT             | IoT Systems           |
| 136 | IoT-Based Smart Drainage Monitoring System                   | IoT Systems           |
| 137 | Smart RFID Attendance System with IoT Dashboard              | IoT Systems           |
| 138 | PLC + IoT Integration for Smart Factories                    | IoT Systems           |
| 139 | Algae Detection in Water Bodies using Image Processing & IoT | IoT Systems           |
| 140 | IoT-Based Fleet Management and Tracking System               | IoT Systems           |
| 141 | IoT-Based Earthquake Detection using Accelerometer           | IoT Systems           |
| 142 | MQTT-Based Remote Equipment Control and Monitoring           | IoT Systems           |
| 143 | Biometric Attendance System with Cloud Logging               | IoT Systems           |
| 144 | IoT-Based Smart Grid Energy Management                       | IoT Systems           |
| 145 | IoT-Based Smart Fan Control Using Temperature                | IoT Systems           |
| 146 | Real-Time Voting System using RFID and Cloud                 | IoT Systems           |
| 147 | IoT-Based Oxygen Level and Heart Rate Monitoring System      | IoT Systems           |
| 148 | IoT-Based Aquarium Monitoring System                         | IoT Systems           |
| 149 | IoT-Based Fever Detection and Quarantine Alert System        | IoT Systems           |
| 150 | Portable ECG Monitoring System with IoT Cloud Logging        | IoT Systems           |

|     |                                                               |                   |
|-----|---------------------------------------------------------------|-------------------|
| 151 | IoT-Based Livestock Location Tracker with GPS and GSM         | IoT Systems       |
| 152 | IoT-Based Noise Level Monitoring for Residential Areas        | IoT Systems       |
| 153 | IoT-Based Air Conditioner Control via Mobile App              | IoT Systems       |
| 154 | IoT-Based Greenhouse Monitoring and Control System            | IoT Systems       |
| 155 | IoT-Based Polyhouse Automation System                         | IoT Systems       |
| 156 | Office Energy Wastage Reduction Using IoT                     | IoT Systems       |
| 157 | IoT-Based Curtain Controller with Light Intensity Sensor      | IoT Systems       |
| 158 | Automatic Plant Watering System using Arduino and IoT         | IoT Systems       |
| 159 | IoT-Based Seizure Detection and Alert System                  | IoT Systems       |
| 160 | Emergency Ventilator Monitoring System using IoT              | IoT Systems       |
| 161 | IoT-Based Diabetes Monitoring System with Cloud Alerts        | IoT Systems       |
| 162 | Wi-Fi Controlled Robot using NodeMCU                          | Robotics          |
| 163 | Autonomous Maze Solving Robot using A* Algorithm              | Robotics          |
| 164 | Gesture-Controlled Robot using MPU6050                        | Robotics          |
| 165 | Wall Climbing Robot using Embedded Design                     | Robotics          |
| 166 | Face-Recognizing Personal Assistant Robot                     | Robotics          |
| 167 | Android-Controlled Pick and Place Robot Arm                   | Robotics          |
| 168 | Fire Fighting Robot with Flame and Water Jet Mechanism        | Robotics          |
| 169 | Arduino-Based Vacuum Cleaner Robot                            | Robotics          |
| 170 | Line Follower Robot with PID Control                          | Robotics          |
| 171 | Obstacle-Avoiding Robot with Ultrasonic Sensor                | Robotics          |
| 172 | Arduino-Based Maze Solver Robot with Path Optimization        | Robotics          |
| 173 | Voice-Controlled Humanoid Robot using Arduino                 | Robotics          |
| 174 | Voice-Controlled Robotic Arm for Physically Challenged        | Robotics          |
| 175 | Smart Street Sweeper Robot using Arduino                      | Robotics          |
| 176 | Fire Extinguisher Monitoring System using IoT                 | Safety & Security |
| 177 | Fire Drill Monitoring System with Wi-Fi Alerts                | Safety & Security |
| 178 | Automatic Stove Gas Leakage Detection and Auto Shutoff        | Safety & Security |
| 179 | Firestore-Based IoT Dashboard for Remote Control              | Safety & Security |
| 180 | Forest Fire Early Warning System with Smoke Sensors           | Safety & Security |
| 181 | LPG and Fire Detection System with Automatic Exhaust Control  | Safety & Security |
| 182 | IoT-Based Lab Safety System using Gas and Fire Sensors        | Safety & Security |
| 183 | Smart Industry Safety Helmet with Gas and Temperature Sensors | Safety & Security |
| 184 | IoT-Based SMS Alert System for Fire & Gas Leak                | Safety & Security |
| 185 | LoRa-Based Forest Fire Detection System                       | Safety & Security |
| 186 | Fire Detection and Water Pump Activation System               | Safety & Security |
| 187 | LPG Gas Leakage and Auto Exhaust Fan Control System           | Safety & Security |
| 188 | Child Lock System for Cars using Voice Commands               | Transportation    |
| 189 | Vehicle Pollution Monitoring with GSM Alert System            | Transportation    |

|     |                                                                |                |
|-----|----------------------------------------------------------------|----------------|
| 190 | Parking Slot Availability Monitoring using LDR Grid            | Transportation |
| 191 | IoT-Based Data Logger using SD Card and ESP8266                | Transportation |
| 192 | IoT-Based Smart Parking System using Ultrasonic and IR Sensors | Transportation |
| 193 | Intelligent Car Parking Assistant using Arduino                | Transportation |
| 194 | Bluetooth-Controlled Car with Obstacle Avoidance               | Transportation |
| 195 | Vehicle Theft Detection and Engine Cut-Off System              | Transportation |
| 196 | IoT-Based Smart Traffic Light with Emergency Vehicle Priority  | Transportation |
| 197 | Smart Toll Booth with Vehicle Detection and Billing            | Transportation |
| 198 | Voice-Controlled Car using Arduino and Bluetooth Module        | Transportation |
| 199 | Smart Shopping Cart with Auto-Billing and Theft Detection      | Transportation |
| 200 | Real-Time Car Dashboard Monitoring via IoT                     | Transportation |



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