



Futuretron Labs
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FUTURETRON PROJECT LIST

> RASPBERRY PI BASED PROJECTS:

1. Implementation of greenhouse facility mechanism protocol using Python on Raspberry PI
2. Smart Traffic light control in the junction using Raspberry PI
3. Home Automation using Raspberry PI
4. Advanced gesture controlled robot using Raspberry PI
5. Raspberry PI as robot arm controller with 3D gesture shield

> EMBEDDED PROJECTS:

1. Voice / touch screen /MEMS controlled Wheel chair for patients and physically challenged persons with capacity upto 100Kgs
2. An Improved Version of Student Attendance Management System Based on RFID
3. Cultivation of plants under Artificial Environmental Parameters to Increase Productivity Rate
4. Development of automated tolling system for vehicle
5. Bluetooth communication System for control of a Mobile Robot
6. Mobile control Wireless Spy Robot with Video capture
7. Android Controlled Pick and Place Robot
8. RF based Fire fighting Robot
9. Bomb Disposal Robot
10. IR Remote Controlled Robot using Arduino
11. Point To Point Safe Navigation Using Advanced Military Spying Robot
12. Dish Delivery Robot for Restaurant
13. Ultrasonic Radar System (URAS): Arduino and Virtual Reality for a light free mapping of indoor environments
14. Environmental Monitoring in Grain Granary Based on Embedded System
15. Embedded Control System for Smart Walking Assistance Device
16. Direct and indirect sensing two-axis solar tracking system
17. Biomedical wearable device for remote monitoring of physically impaired or senior citizen persons
18. Automatic visitor count with room light control
19. Speech based high alert building automation and security alert through android with earthquake alert
20. Automatic ration material distributions based on gsm and finger print scanner technology
21. Efficient power saver for street lights using LDR, RTC, LEDs light with solar power

22. MEMS Based Gesture Controlled Robot Using Wireless Communication

NOTE: ANY PROJECT IDEAS ARE WELCOMED AND WILL BE GUIDED BY PROFESSIONALS

23. Smart Refrigerator

24. Smart Helmet or motor vehicles

25. Locker opening and closing system Using RFID, fingerprint, password And GSM

> **IOT PROJECTS:**

1. Smart Energy Efficient Home Automation System Using IoT
2. Smart Waste Collection Monitoring and Alert System via IoT
3. A Secure IoT Enabled Smart Home System
4. Power-aware IoT based Smart Health Monitoring using Wireless Body Area Network
5. A Smart Home Automation and Metering System using Internet of Things (IoT)
6. A Smart Home Appliance Control System for Physically Disabled People
7. Smart electricity meter using IOT
8. Door automation system based on speech command and PIN using Android smartphone
9. Smart Street lights using IOT
10. Weather Report streaming with graphs using IOT
11. IOT based Greenhouse monitoring and controlling system
12. IOT Based Home Automation-Smart way to controlling your home from anywhere
13. Virtual care taker-online patient monitoring system.
14. Traffic lights Control System
15. IoT based smart crop-field monitoring and Automation irrigation system
16. Advanced IOT Based Combined Remote Health Monitoring, Home Automation and Alarm System
17. Priority based and secured traffic management system for emergency vehicle using iot

> **ANDROID & SMART PHONE BASED PROJECTS**

1. Smart Remote for controlling electrical appliance through android mobile.
2. Advanced android mobile controlling robot
3. Mobile accelerometer/MEMS based robot controlling through android App
4. Smart regulator for controlling fan speed through Android mobile

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