

LOGIC ONE

EMBEDDED SYSEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

1. **A Voice-Input Voice-Output Communication Aid for People with Severe Speech Impairment.**
2. **Autonomous Solar Powered Irrigation System.**
3. **A Smart Prepaid Energy Metering system to control electricity theft.**
4. **RFID-based digital content copy protection system in movie and audio rental agency.**
5. **Self-Powered Wireless Sensor for Air Temperature and Velocity Measurements with Energy Harvesting Capability.**
6. **A Fire Detection and Rescue Support Framework with Wireless Sensor Networks.**
7. **A Green Solution for Intelligent Metropolitan Heating system with u-SD Cards.**
8. **A low-cost web based remote monitoring system with built-in security feature for vulnerable environments.**
9. **A Microcontroller based mobile robotic platform for odor detection.**
10. **A Scheme for the Application of Smart Message Language in a Wireless Meter Reading System.**
11. **A Survey on Security for Mobile Devices.**
12. **A wearable inertial-sensing-based body sensor network for shoulder range of motion assessment.**
13. **A Wireless Sensor network for greenhouse climate control.**
14. **An apparatus in monitoring the energy charging system.**
15. **Automated Control System for Air Pollution Detection in Vehicles.**
16. **Development of a ZigBee-Based Wireless Sensor Network System.**
17. **Embedded Power and Energy Measurement System Based on an Analog Multiplier.**
18. **Embedded temperature monitoring system with a microcontroller used in the automotive industry.**
19. **Engineering Challenges for Instrumenting and Controlling Integrated Organ-on-Chip Systems.**
20. **Environment monitoring and device control using ARM based embedded controlled sensor network.**
21. **HandiCom - Handheld Deaf and Dumb Communication Device based on Gesture to Voice and Speech to Image Word Translation with SMS Sending and Language.**
22. **Hardware Demonstration of a Home Energy Management System for Demand Response Applications.**

LOGIC ONE

EMBEDDED SYSEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

23. **Implementation of Automatic Gas Monitoring in a Domestic Energy Management System.**
24. **Integrated Lane and Vehicle Detection, Localization, and Tracking a Synergistic Approach.**
25. **Intelligent Household LED Lighting System Considering Energy Efficiency and User Satisfaction.**
26. **Intelligent Traffic Signal Control Using Wireless Sensor Networks.**
27. **LabVIEW-base automatic rising and falling Speed Control of Stepper Motor.**
28. **Low Power Wireless Sensor Network for Building Monitoring.**
29. **Management of Mechanical Vibration and Temperature in Small Wind Turbines using ZigBee Wireless Network.**
30. **Maximum Power Point Tracking Employing Sliding Mode Control.**
31. **Mobile robot localization using the phase of passive UHF-RFID signals.**
32. **Passenger BUS alerts system for easy navigation of blind.**
33. **Portable wireless biomedical temperature monitoring system Architecture and implementation Architecture and Implementation Architecture and Implementation.**
34. **Power Consumption in Direct Interface Circuits.**
35. **Real-time indoor surveillance based on smartphone and mobile robot.**
36. **Remote Monitoring System of ECG and Body Temperature Signals.**
37. **Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee Network of Devices and Sensors.**
38. **RFID range extension with low-power wireless edge devices**
39. **Sensing Devices and Sensor Signal Processing for Remote Monitoring of Vital Signs in CHF Patients.**
40. **Sitting posture detection and recognition using force sensor.**
41. **Smart Host Microcontroller for Optimal Battery Charging in a Solar-Powered Robotic Vehicle.**
42. **Solar powered water quality monitoring system using wireless sensor network.**
43. **Towards the Implementation of IoT for Environmental Condition Monitoring in Homes.**
44. **Vertical Edge based Car License Plate Detection Method.**
45. **Wireless access control system based on IEEE 802.15.4.**

LOGIC ONE

EMBEDDED SYSEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

46. **Wireless Capsule Endoscope for Targeted Drug Delivery Mechanics and Design Considerations.**
47. **ZigBee and ATmega32 based wireless digital control and monitoring system For LED lighting.**
48. **ZigBee Based Intelligent Driver Assistance System.**
49. **A Battery Less Remote Control.**
50. **A CAN Bus based system for monitoring and fault diagnosis in Wind Turbine.**
51. **A Compact and Compliant External Pipe-Crawling Robot.**
52. **A Compact Remote Monitoring System for a Three-Phase 10-kVA Energy- Efficient Switchable Distribution Transformer.**
53. **A friendly mobile Entertainment robot for disabled children.**
54. **A New Type of Automatic Alarming Device to Rescue Accident Injured in Time.**
55. **A Robot that Approaches Pedestrians.**
56. **A Robust Wearable health monitoring system based on WSN.**
57. **A Semi-Automated Positioning System for Contact-Mode Atomic Force Microscopy (AFM).**
58. **A sensor system for unsupervised residential power usage monitoring.**
59. **A Simulation-Based Tool for Energy Efficient Building Design for a Class of Manufacturing Plants.**
60. **A Sub-Wavelength RF Source Tracking System for GPS-Denied Environments.**
61. **A System for Automatic Notification and Severity Estimation of Automotive Accidents.**
62. **A System-Prototype Representing 3D Space via Alternative-Sensing for Visually Impaired Navigation.**
63. **A Tactical Information Management System for Unmanned Vehicles Using Vehicular Ad-hoc Network.**
64. **A tactile micro transceiver for fingertip touch and movement recognition with texture expression**
65. **A Wi-Fi based smart wireless sensor network for monitoring an Agricultural Environment.**
66. **A Wireless Electrocardiogram Detection for Personal Health Monitoring.**
67. **A Wireless Passive Sensor for Temperature Compensated Remote PH Monitoring.**
68. **A ZigBee SMS Alert System with Trust Mechanism in Wireless Sensor Networks.**

LOGIC ONE

EMBEDDED SYSEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

69. **An Optimal Power Scheduling Method for Demand Response in Home Energy Management System.**
70. **An Optimized Wireless Sensor Network used in Video Surveillance System.**
71. **An RTOS-based Architecture for Industrial Wireless Sensor Network Stacks with Multi-Processor Support.**
72. **Analysis and design of an embedded system to aid the navigation of the visually impaired.**
73. **ARM Hardware Platform for Vehicular Monitoring and Tracking.**
74. **Assembly Strategies for Remanufacturing Systems with Variable Quality Returns.**
75. **Audiovisual Voice Activity Detection based on Microphone Arrays and Color Information.**
76. **Automated Real-Time Detection of Potentially Suspicious Behavior in Public Transport Areas.**
77. **Automated Retail Store Based on RFID.**
78. **Automated Urban drinking water supply control and water theft identification system.**
79. **Automatic Docking system for Recharging Home Surveillance Robots.**
80. **Automatic Lighting System Using Multiple Robotic Lamps.**
81. **Automatic speed and torque monitoring in induction motor using ZigBee and GSM.**
82. **Automatic Weed Detection System and Smart Herbicide Sprayer Robot for corn fields.**
83. **Battery Energy Storage Station (BESS)-based Smoothing Control of Photovoltaic (PV) and Wind Power Generation Fluctuations.**
84. **Biometric Authentication using Mouse Gesture Dynamics**
85. **Child Activity Recognition based on Cooperative Fusion Model of a Triaxial Accelerometer and a Barometric Pressure Sensor.**
86. **Communication Networks of Domestic Small-Scale Renewable Energy Systems.**
87. **Conditional Privacy Preserving Security Protocol for NFC Applications.**
88. **Context Aware Driver Behavior Detection System in Intelligent Transportation Systems (ITS).**
89. **Efficient Traffic State Estimation for Large-Scale Urban Road Networks.**
90. **Electric Vehicle Charging Method for Smart Homes/Buildings with a Photovoltaic System.**

LOGIC ONE

EMBEDDED SYSEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

91. **Electromechanical Energy Scavenging from Current-Carrying Conductors.**
92. **Embedded system integrated into a wireless sensor network for online dynamic Torque and efficiency monitoring in Induction Motors.**
93. **Emergency Management of Urban Rail Transportation based on Parallel Systems.**
94. **Energy management in an automated Solar powered irrigation system..**
95. **Energy Reduction in a Pallet-Constrained Flow Shop Through On Off Control of Idle Machines.**
96. **Energy Saving Opportunity Analysis of Automotive Serial Production Systems.**
97. **Energy-Efficient Production Systems through Schedule-Based Operations**
98. **Ethernet Enabled Digital I/O Control in Embedded Systems.**
99. **EVANS 3: Home appliance control system with appliance authentication framework using Augmented Reality technology.**
100. **Expanding Gate Level Information Flow Tracking for Multilevel Security.**
101. **Experimental Analysis of Laser Interferometry based Robust Motion Tracking Control of a Flexure-Based Mechanism.**
102. **Experimental Investigation of the Roles of Blood Volume and Density in Finger Photo plethysmography.**
103. **Experimental Study and Design of Smart Energy Meter for the Smart Grid.**
104. **Experimental Study on the Atmospheric Delay based on GPS, SAR Interferometry and Numerical Weather Model Data.**
105. **Fabrication and Characterization of Micromachined Piezoelectric T-Beam Actuators.**
106. **Fall Detection by built-In Tri axis Accelerometer On Smartphone.**
107. **Fault Detection by Labeled Petri Nets in Centralized and Distributed Approaches.**
108. **Fault Diagnosis using an Enhanced Relevance Vector Machine (RVM) for Partially Diagnosable Multi-Station Assembly Processes.**
109. **Field variables Monitoring in real time (GPS, Soil, Temperature) with precision Farming Application.**

LOGIC ONE

EMBEDDED SYSYEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

110. **Formal Methods for Early Analysis of Functional Reliability in Component-Based Embedded Applications.**
111. **Front Sensor and GPS-Based Lateral Control of Automated Vehicles.**
112. **Functional and Behavior Models for the Supervision of an Intelligent and Autonomous System.**
113. **Fuzzy Virtual Reference Model Sensor Less Tracking Control for Linear Induction Motors.**
114. **Gestures for industry Intuitive human-robot communication from human observation.**
115. **GPS Patrol: Deep Sea Fishermen Patrol System for Coastal Intruder Positioning and Inshore Fishery Control.**
116. **Green Charge: Managing Renewable Energy in Smart Buildings.**
117. **GSM based automatic energy meter reading system with instant billing.**
118. **High detection performance of non-Dispersive infrared CO2 sensor using stair-tapered reflector.**
119. **High-Level Scheduling of Energy Optimal Trajectories.**
120. **High-Resolution Parameter Estimation Method to Identify Broken Rotor Bar Faults in Induction Motors.**
121. **High-Speed Hardware Arbitration Supporting Priorities and Bounded Service Latency.**
122. **High-Temperature UHF RFID Sensor Measurements in a Full-Metal Environment.**
123. **HMM-based Human Fall Detection and Prediction Method using Tri-Axial Accelerometer.**
124. **Human Health Monitoring Mobile Phone Application by using the Wireless sensor based Embedded System.**
125. **Human Operator Studies of Portable Touch screen Crane Control Interfaces.**
126. **Hybrid RFID System-based Pedestrian Localization: A Case Study.**
127. **Implementation of a CAN-based multi controller digital driving system for a vehicle.**
128. **Implementation of Wireless Controller Area Network (WCAN) for advanced Instrumentation handling protocol in Industries.**
129. **Indoor Positioning: A Review of Indoor Ultrasonic Positioning system.**

130. **Induction Machine Fault Diagnosis using Microcontroller and Real Time Digital Simulation Unit Ethernet enabled Digital I/O Control in Embedded System.**
131. **Integration and Operation of a Single-Phase Bidirectional Inverter with Two Buck/Boost MPPTS for DC-Distribution Applications.**
132. **Intelligent Monitoring and Control Rendered to Street Lighting.**
133. **Intelligent Parking System for Car Parking Guidance and Damage Notification.**
134. **Intelligent Technologies for Self-Sustaining, RFID-Based, Rural E-Health Systems.**
135. **Intelligent Vehicle Monitoring System using Wireless Communication on PSoC.**
136. **Intel-Skull: Augmented Reality Helmet for Road Hazard Warning, Wireless Bike Authentication and Traffic Adaptive MP3 Playback.**
137. **Localization of Wireless Sensor Networks in the Wild: Pursuit of Ranging Quality.**
138. **Location-Aware and Safer Cards: Enhancing RFID Security and Privacy via Location Sensing.**
139. **Locking and Unlocking of Theft Vehicles Using CAN.**
140. **Micro-power Design of a Fully Autonomous Energy Harvesting Circuit for Arrays of Piezoelectric Transducers.**
141. **Micro-Receptionist: Smart Visitor Guidance Robot with Embedded Touchscreen Panel featuring Onscreen Signature Verification, Campus Map Rendering and Multi-Lingual Voice.**
142. **Minimal Grasper: A Practical Robotic Grasper with Robust Performance for Pick-and-Place Tasks.**
143. **Model Predictive and Genetic Algorithm-Based Optimization of Residential Temperature Control in the Presence of Time-Varying Electricity Prices.**
144. **Modeling of Driver Behavior in Real World Scenarios using Multiple Noninvasive Sensors.**
145. **Monitoring driving habits through an automotive CAN network.**
146. **Monitoring the Marine Atmospheric Refractivity Profiles by Ground-based GPS Occultation.**
147. **Motion Planning and Stabilization Control of a Multipropeller Multifunction Aerial Robot.**

148. **Motorbike ESC: Active Stability Control with ABS and Crash Location Sensing without GPS for E-Bicycles.**
149. **Moving Cells: A Promising Solution to Boost Performance for Vehicular Users.**
150. **MSU Jumper: A Single-Motor-Actuated Miniature Steerable Jumping Robot.**
151. **Multi Sensor Railway Track Geometry Surveying System.**
152. **Multi-Platform Wireless Measurement System for Continuous Biomonitoring.**
153. **Multiple Working Mode Control of Door-Opening with a Mobile Modular and Reconfigurable Robot.**
154. **Multi-sensor tracking and lane estimation in highly automated vehicles.**
155. **Online Control of Fuzzy Based Mine Detecting Robot Using Virtual Instrumentation.**
156. **Online Sensor Activation for Detectability of Discrete Event Systems.**
157. **Opportunity Estimation for Real-Time Energy Control of Sustainable Manufacturing Systems.**
158. **Optimal Angular Movement of Laser Beam in SPR using an Embedded Controller.**
159. **Optimal Demand Response Capacity of Automatic Lighting Control.**
160. **PDMS Microcantilever based Flow Sensor Integration for Lab-on-a-Chip.**
161. **Performance Metrics of Speed and Separation Monitoring in Shared Workspaces.**
162. **Performance-based Classification of Occupant Posture to Reduce the Risk of Injury in a Collision.**
163. **Photovoltaic Power-Increment-Aided Incremental-Conductance MPPT with Two-Phased Tracking**
164. **Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing.**
165. **PIR sensor based Lighting Device with Ultra-Low Standby Power Consumption.**
166. **Portable Camera-based Assistive Text and Product Label Reading from Hand-Held Objects for Blind Persons.**
167. **Predictive Prevention of Loss of Vehicle Control for Roadway Departure Avoidance.**
168. **Preemptive scheduling execution in Real Time OS for Multilayer security system.**

169. **Prioritized Vehicle to vehicle communication using Wireless CAN Network with Graphical User Interface (GUI) System.**
170. **Prototype of a fingerprint based licensing system for driving**
171. **Prototype of an Underground Multi-Storeyed Automated Car Parking System.**
172. **Prototypes of Opportunistic Wireless Sensor Networks Supporting Indoor Air Quality Monitoring.**
173. **Real Life Applicable Fall Detection System Based on Wireless Body Area network.**
174. **Real Time hand gesture Detection and recognition Using Bag-Of-Features and Support Vector Machine Techniques.**
175. **Real Time Operating System based environmental data capturing and analysis.**
176. **Reconfigurable Computing in Next-Generation Automotive Networks.**
177. **Reliability Guarantees in Automata-Based Scheduling for Embedded Control Software.**
178. **Remote control system of high efficiency and intelligent street lighting using ZigBee network of devices and sensors.**
179. **Requirement-Based Bidding Language for Agent-Based Scheduling.**
180. **Research on Elevator Intelligent-Card Control System based on Can Bus.**
181. **Research on the Tele-Operating Robot System with Tele-Presence.**
182. **Research on water saving irrigation automation control system based on internet on things.**
183. **RFID based Digital Content Copy Protection System in Movie and Audio Rental Agency.**
184. **RFID based Location System for Forest Search and Rescue Missions.**
185. **RFID based Tracking System Preventing Trees Extinction and Deforestation.**
186. **Robot Navigation System Using RFID and Sensors.**
187. **Robust Adaptive Controller for a Tractor Trailer Mobile Robot.**
188. **Robust Part based Hand Gesture Recognition based On Finger-Earth Movers Distance.**
189. **RT-Linux priority reversal and priority inheritance mechanism.**

LOGIC ONE

EMBEDDED SYSEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

190. **Safe Maritime Autonomous Navigation With COLREGS, using Velocity Obstacles.**
191. **Scheduling Cluster Tools with Ready Time Constraints for Consecutive Small Lots.**
192. **Security of Autonomous Systems Employing Embedded Computing and Sensors.**
193. **Self-Configuration of Waypoints for Docking Maneuvers of Flexible Automated Guided Vehicles.**
194. **Self-recognition of Vehicle Position Using UHF Passive RFID Tags.**
195. **Sensor Network based Oil Well health monitoring and intelligent control.**
196. **Sensor less Control of BLDC Motor Drive for an Automotive Fuel Pump using a Hysteresis Comparator.**
197. **Shared Steering Control Between a Driver and an Automation: Stability in the Presence of Driver Behavior Uncertainty.**
198. **Simultaneous Fault Section Estimation and Protective Device Failure Detection using Percentage Values of the Protective Devices Alarms.**
199. **Smart Personal Sensor Network Control for Energy Saving in a DC Grid Powered Led.**
200. **Smartphone Enabled Dangerous Driving Report System.**
201. **Soft-core Processor Optimization According to Real-Application Requirements.**
202. **Speed Control of Electrical Drives Using Classical Control Methods.**
203. **Stochastic Approach for Short-Term Freeway Traffic Prediction during Peak Periods.**
204. **Super-Lock: Next Generation Auto Theft Prevention System using Smart Gravitational Lock, Cryptographic Keyless Entry, Touchscreen Ignition, Ubiquitous Vehicle Tracking, GPS Fencing and Remote Fuel Cut-off.**
205. **System and Method for Passive Surveillance in Indoor Environments based on Principal Components of The Signal Strength Variation.**
206. **Tank-Like Module-based Climbing Robot using Passive Compliant Joints.**
207. **The House Intelligent Switch Control Network Based on CAN Bus.**

208. **The Wireless Transmission Design of a Novel Electronic Current Transformer.**
209. **Thermal analysis and Characteristics Measurement System for Automotive health management for Based on RTOS.**
210. **Thermoelectric Energy Harvesting of Human Body Heat for Wearable Sensors.**
211. **Tour Planning for Mobile Data-Gathering Mechanisms in Wireless Sensor Networks.**
212. **Towards a New Modality-Independent Interface for a Robotic Wheelchair.**
213. **Towards a system for body-area sensing and detection of alcohol craving and mood dysregulation.**
214. **Traffic Signal Control System Based on Wireless Technology.**
215. **Traffic Violation Detection Using Multiple Trajectories Evaluation of Vehicles.**
216. **Ultrasonic spectacles and waist belt for virtually impaired and blind person.**
217. **Uncertainty-Aware Household Appliance Scheduling Considering Dynamic Electricity Pricing in Smart Home.**
218. **Using Multi-Robot Systems for Engineering Education: Teaching and Outreach with Large Numbers of an Advanced, Low-Cost Robot.**
219. **Vehicle Positioning Using GSM and Cascade-Connected ANN Structures.**
220. **Vehicular Traffic Density State Estimation Using Support Vector Machine.**
221. **Vibrational Energy Harvesting from Human Gait.**
222. **Video Surveillance System and Facility to Access Pc From Remote Areas Using Smart Phone.**
223. **Virtual electric wheelchair controlled by electromyographic signals.**
224. **Visual Control of an Automatic Manipulation System by Microscope and Pneumatic Actuator.**
225. **Water Environment Monitoring System Based on ZIGBEE Technology.**
226. **Weapon Authentication & control System Based on PSoC mixed signal array.**
227. **Wearable Wireless Vital Monitoring Technology for Smart Health Care.**

LOGIC ONE

EMBEDDED SYSYEMS PROJECT LIST

www.logicone.in Phone 9894585803 Fb @contactlogicone

Mail: contactlogicone@gmail.com

RR COMPLEX, BHARATHI NAGAR BUS STOP, TARAMANI, CHENNAI

228. **Web based Remote Navigational Robot for Multiclass Human-Robot Interaction.**
229. **Wheelchair obstacle avoidance based on fuzzy Controller and ultrasonic sensors.**
230. **Wireless and Piezoelectric Sensory Fusion System for Indoor Human/Robot Localization and Monitoring.**
231. **Wireless based load control and power monitoring system**
232. **Wireless Black Box Using MEMS Accelerometer and GPS Tracking for Accidental Monitoring of Vehicles.**
233. **Wireless Machine to Machine Healthcare Solution Using Android Mobile Devices in Global Networks.**
234. **Wireless Sensor Network Based Smart Home: Sensor Selection, Deployment and Monitoring.**