



A Unit of Ensemble Tech Pvt Ltd

IEEE Projects in - Embedded Sys | VLSI | DSP | DIP | EIE | MATLAB | Electrical | Android

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## About Us :

We at Ingens Tech specialize in academic projects training, guidance and implementation. We offer project guidance and training for final year projects in departments like ECE, EEE, E&I and other associated departments. We have a impeccable track record over more than ten years, during which we have guided thousands of projects in various domains like

- Embedded System Projects
- VLSI Projects
- DSP Projects
- DIP Projects
- MATLAB Projects
- Electrical Projects
- Instrumentation Projects
- Robotics Projects



...and many more related domains. Most of these projects are based on latest international publications like IEEE papers. We hand pick IEEE projects for students to meet their requirements.

## About This List :

This projects list is a partial list, taken from our full projects list for the year 2014-15. Most of the projects on the list are based on IEEE base papers for 2014-15. This list is only to give the students a brief idea about the possibilities with a specific technology. We have 100s of other projects in various other domains also. Students can choose either from this list or contact us to get more project options.

## Contact Us :

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S.No	Code	Embedded Systems
1	<b>IGEM01</b>	Smart wireless healthcare monitoring for drivers community
2	<b>IGEM02</b>	Smart ration card using RFID and GSM technique
3	<b>IGEM03</b>	Smartmote - An innovative autonomous Wireless Sensor Node architecture
4	<b>IGEM04</b>	Reliability of an in-vehicle warning system for railway level crossings - a user-oriented analysis
5	<b>IGEM05</b>	Design of vital sign monitor based on wireless sensor networks and telemedicine technology
6	<b>IGEM06</b>	Temperature and humidity monitoring through wireless sensor network using shortest path algorithm
7	<b>IGEM07</b>	Embedded system for home automation using SMS
8	<b>IGEM08</b>	Design and implementation of load cell based fuel level measurement
9	<b>IGEM09</b>	Smart Sensing Materials for Low-Cost Chipless RFIDSensor
10	<b>IGEM10</b>	New Design for Electronic Blood Pressure Monitor Based on GSM Module TC35i
11	<b>IGEM11</b>	Monitoring activities of daily living based on wearable wireless body sensor network
12	<b>IGEM12</b>	Velocity difference control based on dynamic tracking of safe following distance in the process of vehicle following
13	<b>IGEM13</b>	Implementing Intelligent Traffic Control System for Congestion Control, Ambulance Clearance, and Stolen Vehicle Detection
14	<b>IGEM14</b>	NFC enabled intelligent hospital appointment and medication scheduling
15	<b>IGEM15</b>	A new prototype of smart parking using wireless sensor networks
16	<b>IGEM16</b>	Development of an ambulatory ECG system based on Arduino and mobile telephony for wireless transmission
17	<b>IGEM17</b>	Apply of coal-bunker fire warning system based on ZigBee
18	<b>IGEM18</b>	A High-Resolution Sensor Network for Monitoring Glacier Dynamics
19	<b>IGEM19</b>	Remote access of robot via internet
20	<b>IGEM20</b>	Detecting illegal pickups of intercity buses from their GPS traces



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21	<b>IGEM21</b>	A reliable and fast routing data transmission protocol for Wi-Fi based real-time patient monitoring system
22	<b>IGEM22</b>	Autonomous emergency stop system
23	<b>IGEM23</b>	Monitor and remote control of a heating cloth for the aged
24	<b>IGEM24</b>	Localization of objects based on inertial sensor data
25	<b>IGEM25</b>	Remote fish aquaculture monitoring system based on wireless transmission technology
26	<b>IGEM26</b>	Low cost heart rate monitoring device using Bluetooth
27	<b>IGEM27</b>	Wireless gesture recognition system using MEMS accelerometer
28	<b>IGEM28</b>	A Zigbee-Based Animal Health Monitoring System
29	<b>IGEM29</b>	Automated energy saving and safety system
30	<b>IGEM30</b>	Cloud based automatic street light monitoring system
31	<b>IGEM31</b>	The environmental cognition and agilely service in home service robot intelligent space based on multi-pattern information model and Zigbee wireless sensor networks
32	<b>IGEM32</b>	A novel supervisory control for residential building protection system
33	<b>IGEM33</b>	Smart, public buses information system
34	<b>IGEM34</b>	Distributed process monitoring and control
35	<b>IGEM35</b>	A portable oxygen concentration detection and monitor system using a smartphone and a portable sensor module
36	<b>IGEM36</b>	ZigBee wireless communication for monitoring renewable street light system
37	<b>IGEM37</b>	Designing of mobile controlled automatic Interactive Voice Response irrigation system
38	<b>IGEM38</b>	Live demonstration: A wearable wireless ECG acquisition and specification system
39	<b>IGEM39</b>	GPS guided farm mapping and waypoint tracking mobile robotic system
40	<b>IGEM40</b>	NFC Smart Tourist Card: Combining Mobile and Contactless Technologies towards a Smart Tourist Experience
41	<b>IGEM41</b>	Embedded microcontroller using GPS as a security resource for disabled people
42	<b>IGEM42</b>	Texas instruments MSP430 microcontroller based portable multi-purpose instrument for android platforms



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43	<b>IGEM43</b>	A novel algorithm for secure Internet Banking with fingerprint recognition
44	<b>IGEM44</b>	Generation of digital signature from multi-feature biometric traits for digital right management control
45	<b>IGEM45</b>	Vehicle Data Acquisition and Telemetry
46	<b>IGEM46</b>	Analysis of e-Toll card usage at Pondok Ranji Tollgate
47	<b>IGEM47</b>	A reliable and fast routing data transmission protocol for Wi-Fi based real-time patient monitoring system
48	<b>IGEM48</b>	Ultrasonic sensor system for ecology observation and timing synchronization of ZigBee network
49	<b>IGEM49</b>	Implementing Intelligent Traffic Control System for Congestion Control, Ambulance Clearance, and Stolen Vehicle Detection
50	<b>IGEM50</b>	Real time solid waste bin monitoring system framework using wireless sensor network
51	<b>IGEM51</b>	RFID-Based Sensors for Zero-Power Autonomous Wireless Sensor Networks
52	<b>IGEM52</b>	Autonomous tour guide robot by using ultrasonic range sensors and QR code recognition in indoor environment
53	<b>IGEM53</b>	Secure key management scheme based on ECC algorithm for patient's medical information in healthcare system
54	<b>IGEM54</b>	Lab-on-Phone: A Participatory Sensing system
55	<b>IGEM55</b>	Design of reverse search car system for large parking lot based on NFC technology
56	<b>IGEM56</b>	Development of a system for the glucose level in the blood monitoring
57	<b>IGEM57</b>	Model-Based Health Monitoring for a Vehicle Steering System With Multiple Faults of Unknown Types
58	<b>IGEM58</b>	Attendance System Using NFC Technology and Embedded Camera Device on Mobile Phone
59	<b>IGEM59</b>	Obstacle avoidance and orientation determination for a remote operated vehicle
60	<b>IGEM60</b>	Intelligent Fusion of Wi-Fi and Inertial Sensor-Based Positioning Systems for Indoor Pedestrian Navigation
61	<b>IGEM61</b>	Energy Efficient Environment Monitoring System Based on the IEEE 802.15.4 Standard for



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Low Cost Requirements	
62	<b>IGEM62</b> Wi-Fi Direct data transmission for wireless medical devices
63	<b>IGEM63</b> Secured GPS based traffic monitoring system in pervasive environment
64	<b>IGEM64</b> Biometric Access Control Implementation Using 32 bit Arm Cortex Processor
65	<b>IGEM65</b> Estimating Speed Using a Side-Looking Single-Radar Vehicle Detector
66	<b>IGEM66</b> Wireless Communication Infrastructure for a Short-Range Unmanned Aerial
67	<b>IGEM67</b> Implementation of flash flood monitoring system based on wireless sensor network in Bangladesh
68	<b>IGEM68</b> An Efficient ZigBee-WebSocket Based M2M Environmental Monitoring System
69	<b>IGEM69</b> Design and Implementation of a Sustainable Wireless BAN Platform for Remote Monitoring of Workers Health Care in Harsh Environments
70	<b>IGEM70</b> Improved Use of Foot Force Sensors and Mobile Phone GPS for Mobility Activity Recognition
71	<b>IGEM71</b> A novel algorithm for secure Internet Banking with finger print recognition
72	<b>IGEM72</b> A secure biometrics-based remote user authentication scheme for secure data exchange
73	<b>IGEM73</b> Closed-set Speaker Identification in Speech Gateways
74	<b>IGEM74</b> Relay-by-smartphone: realizing multihop device-to-device communications
75	<b>IGEM75</b> Low-cost obstacle detection device for sight impaired people
76	<b>IGEM76</b> A toilet danger detection system for aged people
77	<b>IGEM77</b> An Integrated Approach to Snowmelt Flood Forecasting in Water Resource Management
78	<b>IGEM78</b> Smart ration card using RFID and GSM technique
79	<b>IGEM79</b> Remote monitoring in home automation using low cost microcontroller
80	<b>IGEM80</b> Home energy management systems: Design guidelines for the communication infrastructure
81	<b>IGEM81</b> A novel design of user responsive smart meter integrated automated EMS inn SCADA interfaced smart grid
82	<b>IGEM82</b> Smart Entrance Guard Control Based on RFID Card and ZigBee Authorization



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83	<b>IGEM83</b>	Development of wireless RGB LED dimming control technology using smart phone
84	<b>IGEM84</b>	Implementation of 802.15.4 for designing of home automation and power monitoring system
85	<b>IGEM85</b>	Android interface based GSM home security system
86	<b>IGEM86</b>	Design and Performance Enhancements in Communication-Based Train Control Systems With Coordinated Multipoint Transmission and Reception
87	<b>IGEM87</b>	Location finder using Augmented Reality for railways assistance
88	<b>IGEM88</b>	Web-based remote monitoring system for nuclear power plant
89	<b>IGEM89</b>	The Application of ZigBee Technology to the Intelligent Bus Query System
90	<b>IGEM90</b>	Optical Vehicle-to-Vehicle Communication System Using LED Transmitter and Camera Receiver
91	<b>IGEM91</b>	NFC based secure mobile healthcare system
92	<b>IGEM92</b>	Harmful Gases Wireless Network Monitoring System Design
93	<b>IGEM93</b>	Android based smart home system with control via Bluetooth and internet connectivity
94	<b>IGEM94</b>	Collision detection system for vehicles in hilly and dense fog affected area to generate collision alerts
95	<b>IGEM95</b>	Presence detection, identification and tracking in smart homes utilizing bluetooth enabled smartphones
96	<b>IGEM96</b>	Enhanced biometric smart key scheme for smart card authentication
97	<b>IGEM97</b>	Power-efficient Interrupt-driven Algorithms for Fall Detection and Classification of Activities of Daily Living
98	<b>IGEM98</b>	A dynamic method to monitor public transport based on smart card and GPS Data
99	<b>IGEM99</b>	NavEye: Smart guide for blind students
100	<b>IGEM100</b>	A low cost multi-sensor approach for early warning in structural monitoring of buildings and structures
101	<b>IGEM101</b>	Application of automatic speaker verification techniques for forensic evidence evaluation
102	<b>IGEM102</b>	Voice communication based on ZigBee wireless sensor networks

103	<b>IGEM103</b>	An interactive LED lighting interface for high energy savings
104	<b>IGEM104</b>	Development of a mind-controlled Android racing game using a brain computer interface (BCI)
105	<b>IGEM105</b>	HOME FADS: A dedicated fire alert detection system using ZigBee wireless network
106	<b>IGEM106</b>	Fingerprint biometrics for ID document verification
107	<b>IGEM107</b>	The development of a visualization framework for fishing vessels at sea
108	<b>IGEM108</b>	A low cost COSPAS-SARSAT alternative for EPIRB transponder for local fishing boats in Bangladesh
109	<b>IGEM109</b>	An S/Key-like One-Time Password Authentication Scheme Using Smart Cards for Smart Meter
110	<b>IGEM110</b>	Freighter fuel level detection and overload alarming system with safety notification via GSM
111	<b>IGEM111</b>	Performance Analysis of Zigbee Based Wireless Sensor Network for Remote Patient Monitoring
112	<b>IGEM112</b>	Advanced user interfaces for intelligent wheelchair system
113	<b>IGEM113</b>	Black Box: An emergency rescue dispatch system for road vehicles for instant notification of road accidents and post crash analysis
114	<b>IGEM114</b>	Low-cost saline droplet measurement system using for common patient room in rural public hospital
115	<b>IGEM115</b>	Agricultural monitoring system based on ant colony algorithm with centre data aggregation
116	<b>IGEM116</b>	Automated electric meter reading and monitoring system using ZigBee-integrated raspberry Pi single board computer via Modbus
117	<b>IGEM117</b>	Probability-Based Location Aware Design and On-Demand Robotic Intrusion Detection System
118	<b>IGEM118</b>	Integration Design Research on Police Digital Soldier Equipment System
119	<b>IGEM119</b>	RAReFall — Real-time activity recognition and fall detection system



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120	<b>IGEM120</b>	Design and Implementation of Portable ECG and Body Temperature Monitor
121	<b>IGEM121</b>	A low cost industrial fuse changeover system with GSM based auto annunciation
122	<b>IGEM122</b>	Mobile enabled bus tracking and ticketing system
123	<b>IGEM123</b>	Multimodal biometric systems
124	<b>IGEM124</b>	Official Document Tracking System with iPhone Using GPS and RFID Technology Case Study: Kasetsart University Si Racha Campus, Thailand
125	<b>IGEM125</b>	Speech Recognition for Voice-Based Machine Translation
126	<b>IGEM126</b>	Data centre monitoring and alerting system using WSN
127	<b>IGEM127</b>	Architecture for Monitoring Urban Infrastructure and Analysis Method for a Smart-Safe City
128	<b>IGEM128</b>	Design and implementation of a bluetooth air finger mouse
129	<b>IGEM129</b>	A Low-Power Wireless Sensor for Online Ambient Monitoring
130	<b>IGEM130</b>	Real time metroplitan bus positionin system desing using GPS and GSM
131	<b>IGEM131</b>	A wearable wireless body area network for human activity recognition
132	<b>IGEM132</b>	A Distributed Scheme to Manage The Dynamic Coexistence of IEEE 802.15.4-Based Health-Monitoring WBANs
133	<b>IGEM133</b>	Design and implementation of a Radio on visible light system for indoor communication
134	<b>IGEM134</b>	Object-following robot using adaptive cruise control algorithm with IOIO
135	<b>IGEM135</b>	Smart steering wheel system for driver's emergency situation using physiological sensors and smart phone
136	<b>IGEM136</b>	Smartphone enabled connected vehicles pave the way to intelligent mobility
137	<b>IGEM137</b>	An industrial Wireless Sensor Networks framework for production monitoring
138	<b>IGEM138</b>	Integration of Drive-by-Wire with Navigation Control for a Driverless Electric Race Car
139	<b>IGEM139</b>	Design and Evaluation of Intelligent Tourist Guide System Based on Mobile Devices
140	<b>IGEM140</b>	Design of a multi-input-multiple-output visible light communication system for transport infrastructure to vehicle communication
141	<b>IGEM141</b>	Low-Cost Speaker and Language Recognition Systems Running on a Raspberry Pi



142	<b>IGEM142</b>	Full duplex device to device communication in cellular networks
143	<b>IGEM143</b>	Web based service to monitor automatic irrigation system for the agriculture field using sensors
144	<b>IGEM144</b>	The study on coal mine using the Bluetooth wireless transmission
145	<b>IGEM145</b>	Telemonitoring Physiological Parameters of a Patient from a Distance by Near Field Communication Mobile
146	<b>IGEM146</b>	Fuzzy Logic Based Stable On-Demand Multipath Routing Protocol for Mobile Ad Hoc Network
147	<b>IGEM147</b>	GSM based remote device controller using SIM548C
148	<b>IGEM148</b>	Experimental study of thumbprint-based authentication framework for ATM machines
149	<b>IGEM149</b>	Biometric attendance
150	<b>IGEM150</b>	Design of smart home control system based on Cortex-A8 and ZigBee
151	<b>IGEM151</b>	An interoperable pillbox system for smart medication adherence
152	<b>IGEM152</b>	The smartphone-enabled DMM
153	<b>IGEM153</b>	A wrist -worn fall detection system using accelerometers and gyroscopes
154	<b>IGEM154</b>	Measurements and channel characterization for in-vehicle power line communications
155	<b>IGEM155</b>	Design and implementation of energy data collection system using wireless fidelity (WiFi) module and current transformer
156	<b>IGEM156</b>	Reliable monitoring of oil and gas pipelines using wireless sensor network (WSN) — REMONG
157	<b>IGEM157</b>	A new approach of RFID and GSM assisted navigation system for VANETS
158	<b>IGEM158</b>	Development of a wireless sensor network for detecting fire and Gas leaks in a collapsing building
159	<b>IGEM159</b>	Remote control robot using Android mobile device
160	<b>IGEM160</b>	GPS based real time Emergency Aid System with analysis of latency in satellite communication
161	<b>IGEM161</b>	Remote monitoring and closed loop control system for social modernization in agricultural



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	system using GSM and Zigbee technology
162	<b>IGEM162</b> Development of an intelligent system for bank security
163	<b>IGEM163</b> Zigbee-based intelligent street lighting system
164	<b>IGEM164</b> Acquiring and analyzing electrocardiograms via smartphone to detect cardiovascular abnormalities
165	<b>IGEM165</b> Hybrid indoor location system for museum tourist routes in augmented reality
166	<b>IGEM166</b> ATM based remote healthcare monitoring system
167	<b>IGEM167</b> RFID Technology for IoT-Based Personal Healthcare in Smart Spaces
168	<b>IGEM168</b> Fraud Detection From Taxis' Driving Behaviors
169	<b>IGEM169</b> Building a Practical Wi-Fi-Based Indoor Navigation System
170	<b>IGEM170</b> A Health-IoT Platform Based on the Integration of Intelligent Packaging, Unobtrusive Bio-Sensor, and Intelligent Medicine Box
171	<b>IGEM171</b> Devising a solar powered standalone vehicle using GSM communication network
172	<b>IGEM172</b> Intelligent energy monitoring system based on ZigBee-equipped smart sockets
173	<b>IGEM173</b> I am a smartphone and I know my user is driving
174	<b>IGEM174</b> An ARM-7 based embedded energy efficient LED lighting system for domestic applications with user satisfaction
175	<b>IGEM175</b> Many-to-all priority-based network-coding broadcast in wireless multihop networks
176	<b>IGEM176</b> Ultralong-Range RFID-Based Wake-Up Radios for Wireless Sensor Networks
177	<b>IGEM177</b> Real time building zone occupancy detection and activity visualization utilizing a visitor counting sensor network
178	<b>IGEM178</b> Remote monitoring of energy consumption using Zigbee and GSM networking
179	<b>IGEM179</b> CAWIS: Context aware wireless irrigation system
180	<b>IGEM180</b> Electric vehicle energy consumption monitoring
181	<b>IGEM181</b> A Novel Approach for HCI Using a MEMS Based Device
182	<b>IGEM182</b> Internet of Things in Industries: A Survey



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183	<b>IGEM183</b>	The Generic Design of a High-Traffic Advanced Metering Infrastructure Using ZigBee
184	<b>IGEM184</b>	A Device for Local or Remote Monitoring of Hand Rehabilitation Sessions for Rheumatic Patients
185	<b>IGEM185</b>	Intelligent Electrocardiogram Monitoring System for Early Arrhythmia Detection
186	<b>IGEM186</b>	An Arduino-based indoor positioning system (IPS) using visible light communication and ultrasound
187	<b>IGEM187</b>	Smart vehicle connectivity for safety applications
188	<b>IGEM188</b>	Intelligent Carpool Routing for Urban Ridesharing by Mining GPS Trajectories
189	<b>IGEM189</b>	Performance of uni-directional road side units in Vehicular Adhoc Networks
190	<b>IGEM190</b>	Advanced street lighting maintenance using GPS, light intensity measuring and incremental cost-effectiveness ratio
191	<b>IGEM191</b>	GSM Controlled Robotics
192	<b>IGEM192</b>	Voice recognition and touch screen control based wheel chair for paraplegic persons
193	<b>IGEM193</b>	MCS-51 microcontroller based industrial automation and control system using CAN protocol
194	<b>IGEM194</b>	Wireless Anti-Theft Alarm System for Automobiles Based on Thermoelectric Energy Harvesting Powered Glass Break Detection
195	<b>IGEM195</b>	A redundant solution for collective residences inflammable gas leaking monitoring using ultra-low power transmission system and automatic control
196	<b>IGEM196</b>	A Phase-Based Technique for Localization of UHF-RFIDTags Moving on a Conveyor Belt: Performance Analysis and Test-Case Measurements
197	<b>IGEM197</b>	Design of an NFC enabled bio-patch solution
198	<b>IGEM198</b>	neMEMSi: One step forward in wireless attitude and heading reference systems
199	<b>IGEM199</b>	Secure Mobile Payment Systems
200	<b>IGEM200</b>	WSN based utility System for effective monitoring and control of household power consumption
201	<b>IGEM201</b>	RFID in Underground-Mining Service Applications



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202	<b>IGEM202</b>	Multi-smart car control system design and research based on ZigBee
203	<b>IGEM203</b>	Virtual Traffic Signals by Cooperation among Vehicle-Mounted Mobile Computers
204	<b>IGEM204</b>	Design and Development of a Low-Cost Multisensor Inertial Data Acquisition System for Sailing
205	<b>IGEM205</b>	Design and development of android mobile based bus tracking system
206	<b>IGEM206</b>	A new smart fall-down detector for senior healthcare system using inertial microsensors
207	<b>IGEM207</b>	Ultrasonic sensor animal safety system
208	<b>IGEM208</b>	A Wireless Accelerometer-Based Automatic Vehicle Classification Prototype System
209	<b>IGEM209</b>	Development of real-time wireless monitoring system for greenhouses: Industrial Bluetooth application
210	<b>IGEM210</b>	A highly integrated hardware design implemented for a wireless healthcare monitoring system
211	<b>IGEM211</b>	An active transmission ModBus protocol based on Zigbee
212	<b>IGEM212</b>	An innovative wireless Cardiac Rhythm Management (iCRM) system
213	<b>IGEM213</b>	Design of ECG acquisition system based on Bluetooth wireless communication
214	<b>IGEM214</b>	Wireless remote switching system for controlling devices with an algorithm based DTMF detection
215	<b>IGEM215</b>	Intelligent system for vehicular accident detection and notification
216	<b>IGEM216</b>	Internet enabled tipping bucket rain gauge
217	<b>IGEM217</b>	Wireless Sensor Network-based air quality monitoring system
218	<b>IGEM218</b>	Landslide monitoring based on computer vision technology
219	<b>IGEM219</b>	Android interface based GSM home security system
220	<b>IGEM220</b>	Enhanced, Delay Dependent, Intelligent Fusion for INS/GPS Navigation System
221	<b>IGEM221</b>	Ultrasonic-sensor deployment strategies and use of smartphone sensors for mobile robot navigation in indoor environment
222	<b>IGEM222</b>	Advanced health care system using Zig-Bee enabled RFID technology
223	<b>IGEM223</b>	Vehicle Data Acquisition and Telemetry



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224	<b>IGEM224</b>	Emergency Evacuation Base on Intelligent Digital Signage Systems
225	<b>IGEM225</b>	Solar panel and battery street light monitoring system using GSM wireless communication system
226	<b>IGEM226</b>	Vehicular Traffic Monitoring Using Bluetooth Scanning Over a Wireless Sensor Network
227	<b>IGEM227</b>	A ZigBee Based Multi-hop Health Monitoring System: Design and Performance Evaluation
228	<b>IGEM228</b>	RAMSES: RFID Augmented Module for Smart Environmental Sensing
229	<b>IGEM229</b>	An advanced plug-and-play network architecture for wireless body area network using HBC, Zigbee and NFC
230	<b>IGEM230</b>	An energy-efficient WSN-based traffic safety system
231	<b>IGEM231</b>	IoT gadget control on wireless AP at home
232	<b>IGEM232</b>	Automated car parking system commanded by Android application
233	<b>IGEM233</b>	A Privacy-Preserving Solution for Tracking People in Critical Environments
234	<b>IGEM234</b>	Hybrid brain computer interface in wheelchair using voicerecognition sensors
235	<b>IGEM235</b>	Smart home energy management system including renewable energy based on ZigBee and PLC
236	<b>IGEM236</b>	Architecture of web services interface for a Home Energy Management system
237	<b>IGEM237</b>	Solar powered wrist worn acquisition system for continuous photoplethysmogram monitoring
238	<b>IGEM238</b>	Proximity-based reminders using Bluetooth
239	<b>IGEM239</b>	Wireless sensor network based solution for nuclear radiation detection
240	<b>IGEM240</b>	Further Observations on Smart-Card-Based Password-Authenticated Key Agreement in Distributed Systems
241	<b>IGEM241</b>	A wireless automatic meter reading system based on digital image process and ZigBee-3G
242	<b>IGEM242</b>	Using a three-axis accelerometer and GPS module in a smart phone to measure walking steps and distance
243	<b>IGEM243</b>	Remote control robot using Android mobile device
244	<b>IGEM244</b>	Towards the era of wireless keys: How the IoT can change authentication paradigm



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245	<b>IGEM245</b>	Locomotive monitoring system using wireless sensor networks
246	<b>IGEM246</b>	Implementation of wearable sensors for fall detection into smart household
247	<b>IGEM247</b>	Miniaturization of Robust UHF RFID Antennas for Use on Perishable Goods and Human Bodies
248	<b>IGEM248</b>	On-the-fly establishment of multihop wireless access networks for disaster recovery
249	<b>IGEM249</b>	Real Time Monitoring and Control System for Green House Based on 802.15.4 Wireless Sensor Network
250	<b>IGEM250</b>	Wireless sensor networks for efficient irrigation system using hybrid pv -wind system
251	<b>IGEM251</b>	Efficient vehicle to vehicle communication protocol for VANETS
252	<b>IGEM252</b>	Smart non-invasive wireless physiological monitoring system
253	<b>IGEM253</b>	Trusted Platform Module for Smart Cards
254	<b>IGEM254</b>	Android-based navigation system for elderly people in hospital
255	<b>IGEM255</b>	Rescue System with Vital Sign, Location and Attitude Sensing Together with Traffic Condition, Readiness of Helper Monitoring in Particular for Disabled and Elderly Persons
256	<b>IGEM256</b>	Vehicle location finder using Global position system and Global System for Mobile
257	<b>IGEM257</b>	Car navigation user interface based on a smartphone
258	<b>IGEM258</b>	An Intelligent Wearable E-Belt for Continuous Monitoring of Sinus Rhythm
259	<b>IGEM259</b>	Design of a multi-input-multiple-output visible light communication system for transport infrastructure to vehicle communication
260	<b>IGEM260</b>	Direct mobile-to-mobile communication: Paradigm for 5G
261	<b>IGEM261</b>	An automatic switchover mechanism between terrestrial and satellite transmission for anti-disaster BTS
262	<b>IGEM262</b>	Intelligent Fusion of Wi-Fi and Inertial Sensor-Based Positioning Systems for Indoor Pedestrian Navigation
263	<b>IGEM263</b>	Networking technology of fault indication system based on ZigBee
264	<b>IGEM264</b>	Development of a cell phone based vehicle remote control system
265	<b>IGEM265</b>	An advanced plug-and-play network architecture for wireless body area network using



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	HBC, Zigbee and NFC
266	<b>IGEM266</b> Design and implementation of cost effective surveillance robot
267	<b>IGEM267</b> Diagnostic Device for Acute Cardiac Disease Using ECG and Accelerometer
268	<b>IGEM268</b> Low power AMT acquisition network based on ZigBee and GPS
269	<b>IGEM269</b> The GPS application for the control of the rail vehicle
270	<b>IGEM270</b> Remote patient monitoring system for rural population using ultra low power embedded system
271	<b>IGEM271</b> A Battery-Assisted Sensor-Enhanced RFID Tag Enabling Heterogeneous Wireless Sensor Networks
272	<b>IGEM272</b> Design of pipeline displacement detecting system based on ZigBee wireless sensor networks
273	<b>IGEM273</b> A middleware for intelligent environments in ambient assisted living
274	<b>IGEM274</b> NFC based secure mobile healthcare system
275	<b>IGEM275</b> Smart coffee vending machine using sensor and actuator networks
276	<b>IGEM276</b> Intelligent wall mounted wireless fencing system using wireless sensor actuator network
277	<b>IGEM277</b> Design and implementation of Wireless Menu Card
278	<b>IGEM278</b> The Research and Implement of the Intelligent Parking Reservation Management System Based on ZigBee Technology
279	<b>IGEM279</b> Advance energy management using GSM technology
280	<b>IGEM280</b> A security- and privacy-driven hybrid biometric template protection technique
281	<b>IGEM281</b> Monitoring and remote control of energy consumption by WiFi networks
282	<b>IGEM282</b> Wireless multihop networking for a scalable indoor temperature monitoring system
283	<b>IGEM283</b> Seismic early warning alert system (SEWAS)
284	<b>IGEM284</b> Design and realization of intelligent infrared data communication system
285	<b>IGEM285</b> System engineering and deployment of envirobat An urban air pollution monitoring device
286	<b>IGEM286</b> Smartphone based continuous monitoring system for home-bound elders and patients



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287	<b>IGEM287</b>	Fire rescue system in railways using LabVIEW
288	<b>IGEM288</b>	The design of smart home control system
289	<b>IGEM289</b>	Wireless sensor networks based control system development for water supply infrastructure
290	<b>IGEM290</b>	Neighbor Table Based Shortcut Tree Routing in ZigBee Wireless Networks
291	<b>IGEM291</b>	Unified mobile public health care system (UMPHCS) for underdeveloped countries
292	<b>IGEM292</b>	Collaborative work in class rooms with handheld devices using bluetooth and WLAN
293	<b>IGEM293</b>	ZigBee-Assisted Power Saving Management for Mobile Devices
294	<b>IGEM294</b>	Localization algorithm based on Zigbee wireless sensor network with application to an active shopping cart
295	<b>IGEM295</b>	Smart public transport system
296	<b>IGEM296</b>	A Carpooling Recommendation System for Taxicab Services
297	<b>IGEM297</b>	Improving GPS-based vehicle positioning for Intelligent Transportation Systems
298	<b>IGEM298</b>	Data Cleaning for RFID and WSN Integration
299	<b>IGEM299</b>	Wireless Node Control and Monitoring System Using Web Enabled Interface
300	<b>IGEM300</b>	Development of an intelligent system for bank security
301	<b>IGEM301</b>	Discrete-Event Shop-Floor Monitoring System in RFID-Enabled Manufacturing
302	<b>IGEM302</b>	Zigbee network-based detection of anomaly detection runway on airport
303	<b>IGEM303</b>	Energy-Efficient Brightness Control and Data Transmission for Visible Light Communication
304	<b>IGEM304</b>	Spectral matching based voice activity detector for improved speaker recognition
305	<b>IGEM305</b>	Decision-making on seafloor surveillance infrastructure site for Earthquake and Tsunami monitoring in Western Japan
306	<b>IGEM306</b>	Intelligent management of urban garden irrigation
307	<b>IGEM307</b>	Efficient and secure dynamic ID-based remote user authentication scheme for distributed systems using smartcards
308	<b>IGEM308</b>	Effective load management and unethical monitoring for heavy duty vehicles using embedded technology





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309	<b>IGEM309</b>	Signage System for the Navigation of Autonomous Robots in Indoor Environments
310	<b>IGEM310</b>	Personalised phone placement recognition in daily life using RFID tagging
311	<b>IGEM311</b>	Safety Alert & Advisory Information system using vehicular communication (SAVER)
312	<b>IGEM312</b>	Low cost smart phone controlled car security system
313	<b>IGEM313</b>	Patinhas: Service to locate missing animals
314	<b>IGEM314</b>	Visualization of wireless sensor networks using ZigBee's Received Signal Strength Indicator (RSSI) for indoor localization and tracking
315	<b>IGEM315</b>	Application of fire monitoring and personnel evacuation in subway station based on Wireless Sensor Network
316	<b>IGEM316</b>	Design and implementation of energy audit system employing embedded device
317	<b>IGEM317</b>	LocAAP: Location based actuation of appliances
318	<b>IGEM318</b>	Mining freight truck's trip patterns from GPS data
319	<b>IGEM319</b>	Development of prototype system for monitoring and computing greenhouse gases with Unmanned Aerial Vehicle (UAV) deployment
320	<b>IGEM320</b>	Novel Light-Emitting-Diode Dimming Approach Based on Cloud Computing for Protected Cultivation
321	<b>IGEM321</b>	Bluetooth Low Energy (BLE) based blood pressure monitoring system
322	<b>IGEM322</b>	An ARM-based embedded gesture recognition system using a data glove
323	<b>IGEM323</b>	Using wireless measuring devices and Tablet PC to improve the efficiency of vital signs data collection in hospital
324	<b>IGEM324</b>	Implementation of vision based intelligent home automation and security system
325	<b>IGEM325</b>	WSN's modeling for a smart building application
326	<b>IGEM326</b>	The Design and Implementation of a guard against theft and alarm system with embedded telephone access and KEELOQ technique
327	<b>IGEM327</b>	Android based smart home system with control via Bluetooth and internet connectivity
328	<b>IGEM328</b>	Warehousing environment monitoring systems based on CC2530
329	<b>IGEM329</b>	To Go or Not to Go: On Energy-Aware and Communication-Aware Robotic Operation



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330	<b>IGEM330</b>	The short message control of the smart car motion based on the MCU
331	<b>IGEM331</b>	An intelligent traveling companion for visually impaired pedestrian
332	<b>IGEM332</b>	Accelerometer-based HUD input for car navigation
333	<b>IGEM333</b>	Indoor hospital communication systems: An integrated solution based on power line and visible light communication
334	<b>IGEM334</b>	Android based vehicle diagnostics and early fault estimation system
335	<b>IGEM335</b>	A Bluetooth-based Low-Energy Qi-compliant battery charger for implantable medical devices
336	<b>IGEM336</b>	Wearable sensor data fusion for remote health assessment and fall detection
337	<b>IGEM337</b>	Design of a monitoring system of airport boarding bridge based on ZigBee wireless network
338	<b>IGEM338</b>	Implementation of WSN which can simultaneously monitor temperature conditions and control robot for positional accuracy
339	<b>IGEM339</b>	Zigbee and GSM based patient health monitoring system
340	<b>IGEM340</b>	Smart Entrance Guard Control Based on RFID Card and ZigBee Authorization
341	<b>IGEM341</b>	An Overview of Noise-Robust Automatic Speech Recognition
342	<b>IGEM342</b>	Anonymous Assessment Information System for Higher Education Using Mobile Devices
343	<b>IGEM343</b>	Automation using voice recognition with python SL4A script for android devices
344	<b>IGEM344</b>	Remote GSM module monitoring and Photovoltaic system control
345	<b>IGEM345</b>	Home automation system based on GSM
346	<b>IGEM346</b>	Energy Efficient Tag Estimation Method for ALOHA-Based RFID Systems
347	<b>IGEM347</b>	AndroRC: An Android remote control car unit for search missions
348	<b>IGEM348</b>	GSM wireless technology implementation in haze monitoring
349	<b>IGEM349</b>	Efficient event detection in public transport tracking
350	<b>IGEM350</b>	A heart rate detection method for low power exercise intensity monitoring device
351	<b>IGEM351</b>	Real-Time Radiological Monitoring of Nuclear Facilities Using ZigBee Technology



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352	<b>IGEM352</b>	Vehicle classification and accurate speed calculation using multi-element piezoelectric sensor
353	<b>IGEM353</b>	Robot Guided Crowd Evacuation
354	<b>IGEM354</b>	NFC based applications for visually impaired people - A review
355	<b>IGEM355</b>	Hybrid Indoor and Outdoor Positioning with MEMS-based Inertial Motion Sensors
356	<b>IGEM356</b>	Traffic Surveillance System Based on Computer Vision and its Application
357	<b>IGEM357</b>	Development of a GPS-buoy for monitoring water surface elevations at estuaries
358	<b>IGEM358</b>	Speech biometric based attendance system
359	<b>IGEM359</b>	Field tests of two-way television audience measurement system
360	<b>IGEM360</b>	A dynamic method to monitor public transport based on smart card and GPS Data
361	<b>IGEM361</b>	Fine-grained remote monitoring, control and pre-paid electrical service in rural microgrids
362	<b>IGEM362</b>	Wireless Power Transmission: R&D Activities Within Europe
363	<b>IGEM363</b>	DTMF technology applied to the identification and control of a small mobile robot
364	<b>IGEM364</b>	Bluetooth technologie for Industrial Application
365	<b>IGEM365</b>	Design and clinical feasibility of personal wearable monitor for measurement of activity and environmental exposure
366	<b>IGEM366</b>	Low power network node for ambient monitoring and heart rate measurement
367	<b>IGEM367</b>	WSN-Based Smart Sensors and Actuator for Power Management in Intelligent Buildings
368	<b>IGEM368</b>	Multifunctional Gateway Sensor Node for agriculture and forest activities
369	<b>IGEM369</b>	Design and implementation of vehicle tracking system using GPS/GSM/GPRS technology and smartphone application
370	<b>IGEM370</b>	Development of an ambulatory ECG system based on Arduino and mobile telephony for wireless transmission
371	<b>IGEM371</b>	Intelligent system for valorizing solid urban waste
372	<b>IGEM372</b>	Vehicle movement control and accident avoidance in hilly track
373	<b>IGEM373</b>	A link selection strategy for cooperative adhoc networks



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374	<b>IGEM374</b>	NFC Smart Tourist Card: Combining Mobile and Contactless Technologies towards a Smart Tourist Experience
375	<b>IGEM375</b>	Poster Abstract: Integration of Different Smart Metering Systems Based on Wireless Communication
376	<b>IGEM376</b>	Human body: The future communication channel for WBAN
377	<b>IGEM377</b>	Obstacle detectors for visually impaired people
378	<b>IGEM378</b>	Low cost internet based wireless sensor network for air pollution monitoring using Zigbee module
379	<b>IGEM379</b>	A design of voice control car base on SPCE061A single chip
380	<b>IGEM380</b>	A Novel Approach to Circular Edge Detection for Iris Image Segmentation
381	<b>IGEM381</b>	Real time condition monitoring system for tomato ripening
382	<b>IGEM382</b>	Mobile Application for Safe Driving
383	<b>IGEM383</b>	Harnessing wind energy to power sensor networks for agriculture
384	<b>IGEM384</b>	Research on cross-communication based on real-time Ethernet POWERLINK
385	<b>IGEM385</b>	Interface design for multi-parameter health monitoring instrument based on ARM-9 embedded system
386	<b>IGEM386</b>	A roadmap to continuous biometric authentication on mobile devices
387	<b>IGEM387</b>	Android Smartphone based body area network for monitoring and evaluation of medical parameters
388	<b>IGEM388</b>	Design of surveillance and safety system for underground coal mines based on low power WSN