



Ingens

A Unit of [Ensemble Tech Pvt Ltd](#)

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

Phone : 044-42663268 / 24348584

Mobile : +91 95 85 85 85 86 / 87 / 88

Email : projects@ingenstech.com

Website : www.ingenstech.com

Address : 12, Ramasamy St, T Nagar, Chennai - 17
(Behind Fathima Jewellers)

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 the last 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 2013-14. Most of the projects on the list are based on IEEE base papers for 2013-14. 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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Landline: 044-24348584 / 42663268

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S.No	Wireless Communication & Networks	CODE
1	Mitigation of Optical Background Noise in Light-Emitting Diode (LED) Optical Wireless Communication Systems	INWLC01
2	Challenges and conditions for wireless machine-to-machine communications in industrial environments	INWLC02
3	Reliable Wireless Communication Networks for Demand Response Control	INWLC03
4	LED and CMOS Image Sensor Based Optical Wireless Communication System for Automotive Applications	INWLC04
5	Sensorized Glove for Measuring Hand Finger Flexion for Rehabilitation Purposes	INWLC05
6	Performance analysis of optical wireless communication system using pulse width modulation	INWLC06
7	Towards an isochronous wireless communication system for industrial automation	INWLC07
8	Magnetically coupled wireless communication for buried environmental sensor	INWLC08
9	Wireless communication integrated active noise control system for infant incubators	INWLC09
10	A Study on Visitors Tracking Method Using Wireless Communication	INWLC10
11	The implementation of multi-micro-controller communication system based on RF1101 wireless module	INWLC11
12	Intelligent vehicle monitoring system using wireless communication	INWLC12
13	Technologies and networks supporting maritime wireless mesh communications	INWLC13
14	A novel communication-based train control (CBTC) system with cooperative wireless relaying	INWLC14
15	Enabling Mobile Devices for Home Automation Using ZigBee	INWLC15
16	Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee Network of Devices and Sensors	INWLC16
17	Performance evaluation of Wireless Sensor Networks based on ZigBee technology in smart home	INWLC17
18	Water environment monitoring system based on ZigBee wireless sensor network	INWLC18
19	Wireless remote monitor and control system based on Zigbee and web	INWLC19
20	Metro overhead tanks monitoring system using ZigBee based WSN	INWLC20
21	Automatic speed and torque monitoring in induction motors using ZigBee and SMS	INWLC21
22	Health monitoring solution using dedicated ZigBee sensor network	INWLC22



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23	Robust home automation scheme using cognitive ZigBee network	INWLC23
24	Design of household control system based on ZigBee, GSM and TCP/IP protocol	INWLC24
25	Controlling and monitoring process in industrial automation using Zigbee	INWLC25
26	ZigBee wireless sensor network for radiation monitoring at nuclear facilities	INWLC26
27	Research on mobile robot perceptual system based on Zigbee	INWLC27
28	Management of Mechanical Vibration and Temperature in Small Wind Turbines Using Zigbee Wireless Network	INWLC28
29	The Generic Design of a High Traffic Advance Metering Infrastructure Using ZigBee	INWLC29
30	An integrity monitoring system for substation connections using ZigBee wireless sensor network	INWLC30
31	ZigBee and ATmega32 based wireless digital control and monitoring system For LED lighting	INWLC31
32	Performance analysis of ZigBee based Load Control and power monitoring system	INWLC32
33	An automated cloud based vehicular emission control system using Zigbee	INWLC33
34	Real Time Wireless Monitoring and Control of Water Systems Using Zigbee 802.15.4	INWLC34
35	Design of ZigBee based WSN for smart demand responsive home energy management system	INWLC35
36	Environment monitoring and early warning system of facility agriculture based on heterogeneous wireless networks	INWLC36
37	Attendant robot for elderly service using sensor network system	INWLC37
38	Design of Home Automation Network based on CC2530	INWLC38
39	Passenger BUS alert system for easy navigation of blind	INWLC39
40	Instrumentation for safe vehicular flow in intelligent traffic control systems using wireless networks	INWLC40
41	A pollution monitoring system with hybrid wireless transmission	INWLC41
42	A Smart and Contemporary Home Security System using 802.15.4 standard	INWLC42
43	A fault preventive wireless sensor sewer system for urban infrastructure management infusing embedded systems	INWLC43
44	Autonomous wireless sensor network for greenhouse environmental conditions monitoring	INWLC44
45	An Icing On-Line Monitoring System of Transmission Lines Based on WSN	INWLC45
46	Wireless based load control and power monitoring system	INWLC46



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47	Design of electronic shelf label systems based on ZigBee	INWLC47
48	Real-time barrier lakes monitoring and warning system based on wireless sensor network	INWLC48
49	Connected intelligent home based on the Internet of Things	INWLC49
50	A low cost smart shopping facilitator for visually impaired	INWLC50
51	IEEE 802.15.4 wireless network application in real-time automation systems	INWLC51
52	An efficient Wireless Sensor Network-based water quality monitoring system	INWLC52
53	Integrated wireless sensor network for large scale intelligent systems	INWLC53
54	Low-Cost Wireless System for Measuring Energy Efficiency in Industry	INWLC54
55	A system for remote operation of devices: Helpful for elderly and disabled people	INWLC55
56	PLEMS: Plug Load Energy Management Solution for Enterprises	INWLC56
57	Design and deployment of a heart rate monitoring system in a senior center	INWLC57
58	Biomedical sensor network for cardiovascular fitness and activity monitoring	INWLC58
59	Remote control system of smart appliances based on wireless sensor network	INWLC59
60	Wireless Sensor Network for multi-storey building: Design and implementation	INWLC60
61	Traffic Signal Control System Based on Wireless Technology	INWLC61
62	Low cost ultrasonic wireless distributed security system for intrusion detection	INWLC62
63	Household power outlet overload protection and monitoring using cost effective embedded solution	INWLC63
64	A rescue-assist wireless sensor networks for large building	INWLC64
65	Detection and protection of the attacks to the sheep and goats using an intelligent wireless sensor network	INWLC65
66	TeleAssistant - Assisted living platform applied to fall detection	INWLC66
67	A Service-Oriented Auto Managed System for Transportation Applications	INWLC67
68	Wireless access control system based on IEEE 802.15.4	INWLC68
69	Low Cost Arduino/Android-Based Energy-Efficient Home Automation System with Smart Task Scheduling	INWLC69
70	Solar powered water quality monitoring system using wireless sensor network	INWLC70



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71	Environment monitoring and device control using ARM based embedded controlled sensor network	INWLC71
72	A microcontroller-based e-emergency system using wireless adhoc networks	INWLC72
73	A distributed, bandwidth-efficient accident prevention system for interurban VANETs	INWLC73
74	Fast and Secure Multihop Broadcast Solutions for Intervehicular Communication	INWLC74
75	Vehicular traffic monitoring using Bluetooth	INWLC75
76	A Common Interface for Bluetooth-based Health Monitoring Devices	INWLC76
77	Real-time bluetooth communication between an FPGA based embedded system and an Android phone	INWLC77
78	An automated student attendance tracking system using Bluetooth and EyeOS	INWLC78
79	Implementation of wireless data transmission in monitoring and control	INWLC79
80	Remote Monitoring System of ECG and Human Body Temperature Signals	INWLC80
81	Real-Time Street Parking Availability Estimation	INWLC81
82	A Communication-Based Appliance Scheduling Scheme for Consumer-Premise Energy Management Systems	INWLC82
83	Dynamic Traffic Control with Fairness and Throughput Optimization Using Vehicular Communications	INWLC83
84	Broadband Free Space Optical urban links for next generation infrastructures and services	INWLC84
85	Prototype of a PLC based communication system for residential electrical consumption measurement	INWLC85
86	LLCPS and SISO: A TLS-based framework with RFID for NFC P2P retail transaction processing	INWLC86
87	Early discovery of chronic non-attenders by using NFC attendance management system	INWLC87
88	An NFC based consumer-level counterfeit detection framework	INWLC88
89	iSCAPS - Innovative Smart Car Park System integrated with NFC technology and e-Valet function	INWLC89
90	An Anonymous Car Rental System Based on NFC	INWLC90
91	A NFC-based Concept for Medication Related Patient Services	INWLC91
92	NFC-enabled smartphone application for drug interaction and drug allergy detection	INWLC92
93	A Study on the NFC-Based Mobile Parking Management System	INWLC93
94	NFC identification system for fuel dispensing control on petrol station	INWLC94



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95	Expansion of information system with NFC technology for visually impaired passengers	INWLC95
96	The design and implementation of intelligent assessment management system using NFC	INWLC96
97	"VOICE MAPS" — portable, dedicated GIS for supporting the street navigation and self-dependent movement of the blind	INWLC97
98	A Wireless On-The-Go Industrial Safety System for Workers Safety in Hazardous Environments	INWLC98
99	Near Field Communication for pilgrim services	INWLC99