



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	PLC / SCADA / DCS / HMI / INDUSTRIAL NETWORKS
1	IGPLC01	Smart home automation system for energy efficient housing
2	IGPLC02	Comparison of methods for wind turbine condition monitoring with SCADA data
3	IGPLC03	Implementation of a Web of Things based Smart Grid to remotely monitor and control Renewable Energy Sources
4	IGPLC04	Co-Simulation Training Platform for Smart Grids
5	IGPLC05	Design and implementation of the remote control of ICCP systems
6	IGPLC06	Advanced transformer fleet monitoring system
7	IGPLC07	Automation system based on SIMATIC S7 300 PLC, for a hydro power plant
8	IGPLC08	Novel IEEE802.15.4 Protocol for Modern SCADA communication systems
9	IGPLC09	Flash flood warning system using SCADA system: Laboratory level
10	IGPLC10	An internet remote laboratory to teach Industrial Automation
11	IGPLC11	Realization of adaptable PID controller within an industrial automated system
12	IGPLC12	Extensible FlexRay Communication Controller for FPGA-Based Automotive Systems
13	IGPLC13	Diagnostic gateway based on DoIP for automotive systems
14	IGPLC14	Design and verification of CAN bus based devices for parking spaces detection
15	IGPLC15	The design and implementation of ECM control system
16	IGPLC16	Design Mini-PLC based on ATxmega256A3U-AU microcontroller
17	IGPLC17	Process-Machine Interaction (PMI) Modeling and Monitoring of Chemical Mechanical Planarization (CMP) Process Using Wireless Vibration Sensors
18	IGPLC18	A deployable SCADA authentication technique for modern power grids
19	IGPLC19	The study on coal mine using the Bluetooth wireless transmission
20	IGPLC20	Design of a photovoltaic power conditioning system for hierarchical control of a microgrid
21	IGPLC21	Energy-saving LED control module for agent-based Micro-Grid systems
22	IGPLC22	Design of a Network for Detection of Environmental Condition Using Wireless Sensor



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Network Technology	
23	<b>IGPLC23</b> Time Synchronization of Automation Controllers for Power Applications
24	<b>IGPLC24</b> The key technology research for embedded soft PLC control
25	<b>IGPLC25</b> Design of Interconnection Gateway in Elevator Remote Monitoring System
26	<b>IGPLC26</b> A low cost mobile platform for educational robotic applications
27	<b>IGPLC27</b> PLC-Based PV Plants Smart Monitoring System: Field Measurements and Uncertainty Estimation
28	<b>IGPLC28</b> Zigbee based monitoring and control of melter process in sugar industry
29	<b>IGPLC29</b> Experiential Learning of Digital Communication Using LabVIEW
30	<b>IGPLC30</b> Multi-protocol communications for intelligent low-voltage circuit breaker
31	<b>IGPLC31</b> Flash flood warning system using SCADA system: Laboratory level
32	<b>IGPLC32</b> Multi-channel data acquisition and data logging for Green House application
33	<b>IGPLC33</b> An active transmission ModBus protocol based on Zigbee
34	<b>IGPLC34</b> CAN/LIN-Bus protocol. Implementation of a low-cost serial communication network
35	<b>IGPLC35</b> Low power embedded controlled sensor network for agricultural applications
36	<b>IGPLC36</b> Implementation of Modbus Communication Protocol based on ARM Coretx-M0
37	<b>IGPLC37</b> Design, verification, and performance of a MODBUS-CAN adaptation layer
38	<b>IGPLC38</b> Distance education in energy efficient drive technologies by using remote workplace
39	<b>IGPLC39</b> Wireless Sensor System According to the Concept of IoT -Internet of Things-
40	<b>IGPLC40</b> Time synchronization of automation controllers for power applications
41	<b>IGPLC41</b> Realization of adaptable PID controller within an industrial automated system
42	<b>IGPLC42</b> Cost-effective and real-time SCADA home energy monitoring system
43	<b>IGPLC43</b> Automation of a distributed generation system
44	<b>IGPLC44</b> Secure integration of the Home Energy Management System to the battery management system in the customer domain of the smart grid
45	<b>IGPLC45</b> Design, implementation and experimental validation of explicit MPC

		in programmable logic controller
46	<b>IGPLC46</b>	Design of network complementary monitoring system based on LabVIEW
47	<b>IGPLC47</b>	An Integrated WSAN and SCADA System for Monitoring a Critical Infrastructure
48	<b>IGPLC48</b>	Electrical integration in oil & gas integrated control and safety system using IEC 61850
49	<b>IGPLC49</b>	A fault-tolerant backbone for IEEE 802.15.4 based networks
50	<b>IGPLC50</b>	Dynamic voltage restorer using the combination of fuzzylogic and EPLL control strategies: An optimized implementation
51	<b>IGPLC51</b>	It Takes a Village: Social SCADA and Approaches to Community Engagement in Isolated Microgrids
52	<b>IGPLC52</b>	A novel design of user responsive smart meter integrated automated EMS inn SCADA interfaced smart grid
53	<b>IGPLC53</b>	In-vehicle FlexRay bus monitoring system
54	<b>IGPLC54</b>	Programmable logic controllers and transient heat models
55	<b>IGPLC55</b>	An alternative distributed control using Labview
56	<b>IGPLC56</b>	Remote monitoring in home automation using low cost microcontroller
57	<b>IGPLC57</b>	Automated electric meter reading and monitoring system using ZigBee-integrated raspberry Pi single board computer via Modbus
58	<b>IGPLC58</b>	Sequence controller synthesis for automated guided vehicle systems Using ordinary Petri nets
59	<b>IGPLC59</b>	Secure web based home automation: Application layer based security using embedded programmable logiccontroller
60	<b>IGPLC60</b>	A distribution loads forecast methodology based on transmission grid substations SCADA Data
61	<b>IGPLC61</b>	Automation of measurement and data collection for gas filling line
62	<b>IGPLC62</b>	Design of an ARM9-based embedded industrial personal computer system
63	<b>IGPLC63</b>	Design and scheduling of networked control systems based on CAN bus
64	<b>IGPLC64</b>	MCS-51 microcontroller based industrial automation and control system using CAN



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protocol

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**IGPLC65** Narrowband PLC for LV smart grid services, beyond Smart Metering