



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	LABVIEW / VIRTUAL INSTRUMENTATION
1	<b>IGLAB01</b>	Development of cost effective ECG data acquisition system for clinical applications using LabVIEW
2	<b>IGLAB02</b>	Smart soldier assistance using WSN
3	<b>IGLAB03</b>	Numerical relay development environment
4	<b>IGLAB04</b>	Identification and feature extraction of moving vehicles in LabVIEW
5	<b>IGLAB05</b>	Design and Application of ZigBee Wireless Techniques for an Intelligent House Lighting Control System
6	<b>IGLAB06</b>	Low-cost remote laboratories for renewable energy in distance education
7	<b>IGLAB07</b>	Implementation of Power Measurement System with Fourier Series and Zero-Crossing Algorithm
8	<b>IGLAB08</b>	API for communication between Labview and Arduino UNO
9	<b>IGLAB09</b>	Distance training of computer-based measurements and instrument control
10	<b>IGLAB10</b>	Low-cost I-V tracer for photovoltaic modules and strings
11	<b>IGLAB11</b>	Wireless transmission of alarm signals from baby incubators to neonatal nursing station
12	<b>IGLAB12</b>	Virtual instrument for recognition of radiators with machine vision
13	<b>IGLAB13</b>	Development of plough-able RFID sensor network systems for precision agriculture
14	<b>IGLAB14</b>	Virtual laboratories in cloud infrastructure of educational institutions
15	<b>IGLAB15</b>	A low cost portable oscilloscope based on Arduino and GLCD
16	<b>IGLAB16</b>	Implementation of automated demand side energy monitoring on TOD basis using LabVIEW
17	<b>IGLAB17</b>	Acceleration data acquisition and processing system for structural health monitoring
18	<b>IGLAB18</b>	A LabVIEW based power analyzer
19	<b>IGLAB19</b>	FPGA Implementation of Software Defined Radio Based Flight Termination System
20	<b>IGLAB20</b>	Design and implementation of the moving workpiece sorting system based on LabVIEW
21	<b>IGLAB21</b>	Experiential Learning of Digital Communication Using LabVIEW



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22	<b>IGLAB22</b>	Implementation of fuzzy-PID controller to liquid level system using LabVIEW
23	<b>IGLAB23</b>	Integration of LabVIEW-based virtual instruments to modern respirology diagnostics
24	<b>IGLAB24</b>	Implementation of Real Time Control Algorithm for Gait Assistive Exoskeleton Devices for Stroke Survivors
25	<b>IGLAB25</b>	The application of Labview in mine hydrology wireless monitoring system
26	<b>IGLAB26</b>	Gate driver of DC-DC boost converters using national instruments LabVIEW and NImyDAQ
27	<b>IGLAB27</b>	The multi-point pressure and temperature measurement system for aerodynamic tunnel
28	<b>IGLAB28</b>	Sensors network based on mobile robots
29	<b>IGLAB29</b>	A complete virtual instrument for measuring and analyzing human stress in real time
30	<b>IGLAB30</b>	Wireless sensor network protocol developed for microcontroller based Wireless Sensor units, and data processing with visualization by LabVIEW
31	<b>IGLAB31</b>	Optical systems for the detection and recognition of fish in rivers
32	<b>IGLAB32</b>	Vision inspection system for pharmaceuticals
33	<b>IGLAB33</b>	Test point optimization process for a real-time vibration monitoring system on a differential axle fixed rig
34	<b>IGLAB34</b>	Comparison of different DC motor positioning control algorithms
35	<b>IGLAB35</b>	Implementation of WSN which can simultaneously monitor temperature conditions and control robot for positional accuracy
36	<b>IGLAB36</b>	Real-Time Finger Tracking for Virtual Instruments
37	<b>IGLAB37</b>	Identification and real time control of a hybrid tank system through virtual instrumentation
38	<b>IGLAB38</b>	Development of a respiratory rate monitoring device for mice anesthesia induction chamber
39	<b>IGLAB39</b>	Enhancement of remotely controlled laboratory for Active Noise Control and acoustic experiments
40	<b>IGLAB40</b>	Prototype for the estimation and evaluation of walking velocity using acceleration transducers
41	<b>IGLAB41</b>	Counting of cigarettes in cigarette packets using LabVIEW
42	<b>IGLAB42</b>	LabVIEW based remote laboratory for advanced motion control



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43	<b>IGLAB43</b>	Induction generator optimized operation for small-scale wind power in program LabVIEW
44	<b>IGLAB44</b>	Prototype development of a home-based heart rate monitoring system using virtual instrumentation platform
45	<b>IGLAB45</b>	Systematic experimental evaluation of a novel regenerative braking system on DC motor drive using super-capacitors
46	<b>IGLAB46</b>	HOBOT: A customizable home management system with a surveillance RoBOT
47	<b>IGLAB47</b>	A LabVIEW-based PI controller for controlling CE 105 coupled tank system
48	<b>IGLAB48</b>	Detection and control of corrosion in buried gas pipe line using LabVIEW
49	<b>IGLAB49</b>	LABVIEW based expert system for detection of heart abnormalities
50	<b>IGLAB50</b>	The realization of cyclic serial port communication based on LabVIEW
51	<b>IGLAB51</b>	Design and development of a networked health monitoring and control system
52	<b>IGLAB52</b>	Remote GSM module monitoring and Photovoltaic system control
53	<b>IGLAB53</b>	LabVIEW based design of heart disease detection system
54	<b>IGLAB54</b>	Level control of a spherical tank system using conventional & intelligent controllers
55	<b>IGLAB55</b>	An alternative distributed control using Labview
56	<b>IGLAB56</b>	Data acquisition system developed for optimized wind tunnel study on aerospace vehicles
57	<b>IGLAB57</b>	Harmful Gases Wireless Network Monitoring System Design
58	<b>IGLAB58</b>	Design of high performance system-on-chips using Field Programmable Gate Arrays (FPGA)
59	<b>IGLAB59</b>	A multifunctional real-time power quality monitoring system using Stockwell transform
60	<b>IGLAB60</b>	Data Fusion and Fault Diagnosis for Flexible Arrayed pH Sensor Measurement System Based on LabVIEW
61	<b>IGLAB61</b>	Computer based radioactivity measurement with acquisition and monitoring radiation data using LabVIEW
62	<b>IGLAB62</b>	Hard Disk Drive Servo System Based on Field-Programmable Gate Arrays
63	<b>IGLAB63</b>	Real time monitoring of vital signs using wireless technique
64	<b>IGLAB64</b>	Design of network complementary monitoring system based on LabVIEW



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65	<b>IGLAB65</b>	Toward developing a smart wheelchair for user physiological stress and physical activity monitoring
66	<b>IGLAB66</b>	LabVIEW based design of heart disease detection system
67	<b>IGLAB67</b>	Fire rescue system in railways using LabVIEW
68	<b>IGLAB68</b>	Design and implementation of the electric gripper control system based on the DSP
69	<b>IGLAB69</b>	Web app for a remote electronics instrumentation lab
70	<b>IGLAB70</b>	Mechatronics system for tire pressure control
71	<b>IGLAB71</b>	Real-time measurement of frequency using affordable rotary encoder and LabVIEW
72	<b>IGLAB72</b>	A Zigbee-Based Animal Health Monitoring System
73	<b>IGLAB73</b>	Development and implementation of an advanced remotely controlled vibration laboratory
74	<b>IGLAB74</b>	Application of Wireless Sensor Network in remote monitoring: Water-level sensing and temperature sensing, and their application in agriculture