



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	ARDUINO
1	IGADU1	An Arduino-based EIS with a logarithmic amplifier for corrosion monitoring
2	IGADU2	Hapkit: An open-hardware haptic device for online education
3	IGADU3	A system for dynamic contact resistance with Arduino platform on MV and HV circuit breaker
4	IGADU4	A Study on Augmented Reality Application in Situational Simulation Learning
5	IGADU5	Mono-camera robotic system for tracking moving objects
6	IGADU6	Embedded system design of an advanced illumination measurement system for highways
7	IGADU7	Laboratory model helicopter control using a low cost Arduino hardware
8	IGADU8	Delay tolerant network for autonomous robotic vehicle charging and hazard detection
9	IGADU9	HOME FADS: A dedicated fire alert detection system using ZigBee wireless network
10	IGADU10	Wireless monitoring system and controlling software for Smart Greenhouse Management
11	IGADU11	Cooperative Development of an Arduino-Compatible Building Automation System for the Practical Teaching of Electronics
12	IGADU12	A low cost portable oscilloscope based on Arduino and GLCD
13	IGADU13	Decentralized fault tolerance mechanism for intelligent IoT/M2M middleware
14	IGADU14	Implementation of Mind Control Robot
15	IGADU15	A competition-based approach for undergraduate mechatronics education using the arduino platform
16	IGADU16	Balancing system of tray on waiter robot using complementary filter and fuzzy logic
17	IGADU17	Embedded microcontroller using GPS as a security resource for disabled people
18	IGADU18	Multi-sensors Data Fusion Based on Arduino Board and XBee Module Technology
19	IGADU19	API for communication between Labview and Arduino UNO
20	IGADU20	Towards technology localization: Controlling treadmill speed using heart rate
21	IGADU21	Reconfigurable antenna system with a movable ground plane for cognitive radio
22	IGADU22	Advance energy management using GSM technology



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23	<b>IGADU23</b>	Photovoltaic plant array reconfiguration: Design of a new device
24	<b>IGADU24</b>	Segment wise communication delay measurement for Smart Grid applications
25	<b>IGADU25</b>	Development of an ambulatory ECG system based on Arduino and mobile telephony for wireless transmission
26	<b>IGADU26</b>	Controlling the operating conditions in an operating room
27	<b>IGADU27</b>	Arduino based power semiconductors tester for urban traction systems
28	<b>IGADU28</b>	AndroRC: An Android remote control car unit for search missions
29	<b>IGADU29</b>	Design and implementation of a rule-based learning algorithm using Zigbee wireless sensors for energy management
30	<b>IGADU30</b>	Implementation of WSN which can simultaneously monitor temperature conditions and control robot for positional accuracy
31	<b>IGADU31</b>	A course for teaching integrated system design to computer engineering students
32	<b>IGADU32</b>	A flexible and cost effective gate drive platform for rapid prototyping
33	<b>IGADU33</b>	Software application for analyzing ZigBee network performance in university courses
34	<b>IGADU34</b>	The color of the light: A remote laboratory that uses a smart device that connects teachers and students
35	<b>IGADU35</b>	Development of wireless EMG control system for rehabilitation devices
36	<b>IGADU36</b>	Developing the control system of a syringe infusion pump
37	<b>IGADU37</b>	A low cost portable oscilloscope based on Arduino and GLCD
38	<b>IGADU38</b>	Reconfiguration strategies to reduce mismatch effects on PV array: An Arduino-based prototype
39	<b>IGADU39</b>	A Framework for Environmental Monitoring with Arduino-Based Sensors Using Restful Web Service
40	<b>IGADU40</b>	Physical indicators of cyber attacks against a rescue robot
41	<b>IGADU41</b>	Low flow data logger in membrane distillation: An interdisciplinary laboratory in process control
42	<b>IGADU42</b>	Monitoring and control of a reptile terrarium



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43	<b>IGADU43</b>	Brain Machine Interface for wrist movement using Robotic Arm
44	<b>IGADU44</b>	On-cloth wearable E-nose for monitoring and discrimination of body odor signature
45	<b>IGADU45</b>	API for communication between Labview and Arduino UNO
46	<b>IGADU46</b>	Pole counter for diametrically magnetized ring or disk magnets
47	<b>IGADU47</b>	Web based service to monitor automatic irrigation system for the agriculture field using sensors
48	<b>IGADU48</b>	A co-simulation platform for medium/low voltage monitoring and control applications
49	<b>IGADU49</b>	Implementation of flash flood monitoring system based on wireless sensor network in Bangladesh
50	<b>IGADU50</b>	Low cost combined voltage and current transducer for Smart Meters
51	<b>IGADU51</b>	Sampled-Data Cooperative Adaptive Cruise Control of Vehicles With Sensor Failures
52	<b>IGADU52</b>	Development of a generic network enabled autonomous vehicle system
53	<b>IGADU53</b>	Design of Arduino-based communication agent for rural Indian microgrids
54	<b>IGADU54</b>	Real time fuzzy controller for quadrotor stability control
55	<b>IGADU55</b>	Preliminary design for a paratransit tracking system to inform planning decisions in urban centers in developing countries
56	<b>IGADU56</b>	Implementation of Mind Control Robot
57	<b>IGADU57</b>	PMA: Power Monitoring Application for Android
58	<b>IGADU58</b>	Hybrid battery charging system using solar PV and utility grid
59	<b>IGADU59</b>	Big Data Infrastructure for analyzing data generated by Wireless Sensor Networks
60	<b>IGADU60</b>	An Arduino-based indoor positioning system (IPS) using visible light communication and ultrasound
61	<b>IGADU61</b>	A flexible and reconfigurable controller design for buck converters
62	<b>IGADU62</b>	Control of robotic hand simulator via human hand motion analysis based on EMG
63	<b>IGADU63</b>	A very simple user access control technique through smart device authentication using Bluetooth communication
64	<b>IGADU64</b>	Vehicular pollution monitoring using IoT



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66	<b>IGADU66</b>	Design of microcontroller based multi-functional relay for automated protective system
67	<b>IGADU67</b>	Evaluation of signal smoothing algorithms for stability of a quadrotor MAV
68	<b>IGADU68</b>	Educational haptic controller based on Arduino platform
69	<b>IGADU69</b>	The role of MAC routing in wireless sensor networks
70	<b>IGADU70</b>	Rapid development of a balloon-borne CDH system using COTS electronics and open source software
71	<b>IGADU71</b>	When Arduino Meets Kinect: An Intelligent Ambient Home Entertainment Environment
72	<b>IGADU72</b>	KinardCar: Auxiliary Game in Formation of Young Drivers, Utilizing Kinect and Arduino Integration
73	<b>IGADU73</b>	GEULMóvil - real-time ultraviolet radiation index mobile network
74	<b>IGADU74</b>	Air ventilation system for server room security using Arduino