



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	DIP / DSP / NS2 / ANTENNAS / MATLAB
1	IGDIP01	Real-time gesture recognition and robot control through blob tracking
2	IGDIP02	Full dimension MIMO (FD-MIMO): The next evolution of MIMO in LTE systems
3	IGDIP03	Applying image processing techniques on a ball collecting robot
4	IGDIP04	ARIMA model based breast cancer detection and classification through image processing
5	IGDIP05	Diagnosis of diabetic retinopathy by employing image processing technique to detect exudates in retinal images
6	IGDIP06	Continuous gesture recognition for flexible human-robot interaction
7	IGDIP07	Automatic brain tumor detection and segmentation in MR images
8	IGDIP08	Mass detection on mammograms with image processing techniques and benign-malignant distinction
9	IGDIP09	Video-based traffic data collection system for multiple vehicle types
10	IGDIP10	Identification and feature extraction of moving vehicles in LabVIEW
11	IGDIP11	Edge-Detection Method for Image Processing Based on Generalized Type-2 Fuzzy Logic
12	IGDIP12	Practical Switching-Based Hybrid FSO/RF Transmission and Its Performance Analysis
13	IGDIP13	Wireless Smart Camera Networks for the Surveillance of Public Spaces
14	IGDIP14	Minimum Length Scheduling With Packet Traffic Demands in Wireless Ad Hoc Networks
15	IGDIP15	Detection of RBC agglutination in blood typing test using integrated Light-Eye-Technology (iLeyeT)
16	IGDIP16	Road lane detection for autonomous robot guidance
17	IGDIP17	Analysis of Retinal Blood Vessels Using Image Processing Techniques
18	IGDIP18	Accelerometer-based hand gesture recognition system for interaction in digital TV
19	IGDIP19	Medical image denoising by generalised Gaussian mixture modelling with edge information
20	IGDIP20	Filter-And-Forward Relay Design for MIMO-OFDM Systems
21	IGDIP21	Smart traffic lights switching and traffic density calculation using video processing



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22	<b>IGDIP22</b>	Image processing based vehicle detection and tracking method
23	<b>IGDIP23</b>	Image encryption based on diffusion process and multiple chaotic maps
24	<b>IGDIP24</b>	Real-time vehicle color identification for surveillance videos
25	<b>IGDIP25</b>	A Complex Network Approach to Topology Control Problem in Underwater Acoustic Sensor Networks
26	<b>IGDIP26</b>	Kinect based calling gesture recognition for taking order service of elderly care robot
27	<b>IGDIP27</b>	Automatic optic disc detection in digital fundus images using image processing
28	<b>IGDIP28</b>	Multi-Cell Coordinated Scheduling and MIMO in LTE
29	<b>IGDIP29</b>	Product placement detection based on image processing
30	<b>IGDIP30</b>	Camera as the instrument: the rising trend of vision based measurement
31	<b>IGDIP31</b>	Neighbors and relative location identification using RSSI in a dense wireless sensor network
32	<b>IGDIP32</b>	Wireless webcam based car burglar detection system
33	<b>IGDIP33</b>	Proposal a Vehicle Speed Measuring System Using Image Processing
34	<b>IGDIP34</b>	Parking Assistance System for Leaving Perpendicular Parking Lots: Experiments in Daytime/Nighttime Conditions
35	<b>IGDIP35</b>	Optimization of Antenna Placement in Distributed MIMO Systems for Underground Mines
36	<b>IGDIP36</b>	Real time authentication system using advanced finger vein recognition technique
37	<b>IGDIP37</b>	Neighbor Table Based Shortcut Tree Routing in ZigBee Wireless Networks
38	<b>IGDIP38</b>	Long-Term Automated Monitoring of Nearshore Wave Height From Digital Video
39	<b>IGDIP39</b>	An RSSI gradient-based AP localization algorithm
40	<b>IGDIP40</b>	Deblurred Images Post-Processing by Poisson Warping
41	<b>IGDIP41</b>	Multihop Free-Space Optical Communications Over Turbulence Channels with Pointing Errors using Heterodyne Detection
42	<b>IGDIP42</b>	Object Tracking based on Active Contour Modeling
43	<b>IGDIP43</b>	Adaptive signal processing techniques for extracting fetal electrocardiograms from

		noninvasive measurements
44	<b>IGDIP44</b>	An Automated Nighttime Vehicle Counting and Detection System for Traffic Surveillance
45	<b>IGDIP45</b>	Time-of-Flight Depth Camera Motion Blur Detection and Deblurring
46	<b>IGDIP46</b>	Performance analysis of optical wireless communication system with a decode and forward relay
47	<b>IGDIP47</b>	Smart traffic control system with application of image processing techniques
48	<b>IGDIP48</b>	Fall Detection Systems for Elderly Care: A Survey
49	<b>IGDIP49</b>	RGB ratios based skin detection
50	<b>IGDIP50</b>	Lung cancer diagnosis using CT-scan images based on cellular learning automata
51	<b>IGDIP51</b>	Distributed processing techniques of laser beam control for free space optics system
52	<b>IGDIP52</b>	Image Contrast Enhancement Using Color and Depth Histograms
53	<b>IGDIP53</b>	Smart surveillance framework: A versatile tool for video analysis
54	<b>IGDIP54</b>	Detection and classification of Printed circuit board defects using image subtraction method
55	<b>IGDIP55</b>	Human hand image analysis extracting finger coordinates and axial vectors: Finger axis detection using blob extraction and line fitting
56	<b>IGDIP56</b>	An Automatic Graph-Based Approach for Artery/Vein Classification in Retinal Images
57	<b>IGDIP57</b>	Protocol Design and Capacity Analysis in Hybrid Network of Visible Light Communication and OFDMA Systems
58	<b>IGDIP58</b>	Detection of Leukemia in microscopic images using image processing
59	<b>IGDIP59</b>	Online visual inspection of defects in the assembly of electromechanical parts
60	<b>IGDIP60</b>	Localization of License Plate Number Using Dynamic Image Processing Techniques and Genetic Algorithms
61	<b>IGDIP61</b>	RiskWheel: Interactive visual analytics for surveillance event detection
62	<b>IGDIP62</b>	Face-to-Face Proximity Estimation Using Bluetooth On Smartphones
63	<b>IGDIP63</b>	An efficient edge detection algorithm for flame and fire image processing
64	<b>IGDIP64</b>	A lane departure warning system developed under a virtual environment

65	<b>IGDIP65</b>	Application of image processing in the detection of printed circuit board
66	<b>IGDIP66</b>	Crop Type Classification by Simultaneous Use of Satellite Images of Different Resolutions
67	<b>IGDIP67</b>	Robust Automatic Traffic Signs Detection using fast polygonal approximation of digital curves
68	<b>IGDIP68</b>	Personal Photograph Enhancement Using Internet Photo Collections
69	<b>IGDIP69</b>	A Complete Blood Typing Device for Automatic Agglutination Detection Based on Absorption Spectrophotometry
70	<b>IGDIP70</b>	Diameter Detection for Crystals Growth Based on Image Processing
71	<b>IGDIP71</b>	Detection of direction deviation of vehicle using CCTV cameras
72	<b>IGDIP72</b>	Vegetation measurement using image processing methods
73	<b>IGDIP73</b>	Multi-ROI Association and Tracking With Belief Functions: Application to Traffic Sign Recognition
74	<b>IGDIP74</b>	Monitoring and controlling the combustion quality in thermal power plant boiler using image processing and robotic arm
75	<b>IGDIP75</b>	Novel RSSI evaluation models for accurate indoor localization with sensor networks
76	<b>IGDIP76</b>	Image processing based indoor localization system
77	<b>IGDIP77</b>	Real-time continuous gesture recognition for natural human-computer interaction
78	<b>IGDIP78</b>	Unattended and stolen object detection based on relocating of existing object
79	<b>IGDIP79</b>	Robust driver fatigue recognition using image processing
80	<b>IGDIP80</b>	Video-based detection and analysis of driver distraction and inattention
81	<b>IGDIP81</b>	An efficient data encryption standard image encryption technique with RGB random uncertainty
82	<b>IGDIP82</b>	Liquid level control of Coca-Cola bottles using an automated system
83	<b>IGDIP83</b>	Fire detection in the buildings using image processing
84	<b>IGDIP84</b>	A distributed computer machine vision system for automated inspection and grading of fruits
85	<b>IGDIP85</b>	A Gaussian mixture model and support vector machine approach to vehicle type and

		colour classification
86	<b>IGDIP86</b>	Robust Text Detection in Natural Scene Images
87	<b>IGDIP87</b>	Automatic detection and classification of non metallic inclusions in steel via image processing
88	<b>IGDIP88</b>	Localized Movement-Assisted SensorDeployment Algorithm for HoleDetection and Healing
89	<b>IGDIP89</b>	Target Tracking Using Machine Learning and Kalman Filter in Wireless Sensor Networks
90	<b>IGDIP90</b>	Human body detection of Wireless Sensor Network based on RSSI
91	<b>IGDIP91</b>	Statistical analysis of threshold algorithms in image processing based cancer cell detection
92	<b>IGDIP92</b>	Energy-Efficient RSSI-Based Localization for Wireless Sensor Networks
93	<b>IGDIP93</b>	Implementation of vision based intelligent home automation and security system
94	<b>IGDIP94</b>	EasiSee: Real-Time Vehicle Classification and Counting via Low-Cost Collaborative Sensing
95	<b>IGDIP95</b>	Video surveillance of epilepsy patients using color image processing
96	<b>IGDIP96</b>	Indoor positioning method based on inertial data, RSSI and compass from handheld smart-device
97	<b>IGDIP97</b>	Vehicle Speed Detection Using Corner Detection
98	<b>IGDIP98</b>	Traffic Surveillance System Based on Computer Vision and its Application
99	<b>IGDIP99</b>	Symmetrical SURF and Its Applications to Vehicle Detection and Vehicle Make and Model Recognition
100	<b>IGDIP100</b>	Segmentation of the Blood Vessels and Optic Disk in Retinal Images
101	<b>IGDIP101</b>	Automatic tracking and counting of moving objects
102	<b>IGDIP102</b>	Assistive Clothing Pattern Recognition for Visually Impaired People
103	<b>IGDIP103</b>	A noble technique for detecting anemia through classification of red blood cells in blood smear
104	<b>IGDIP104</b>	Analysis of Data Hiding Using Digital Image Signal Processing
105	<b>IGDIP105</b>	Fetal electrocardiogram extraction from maternal abdominal signals



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106	<b>IGDIP106</b>	Detection and classification of speed limit traffic signs
107	<b>IGDIP107</b>	Classification of defects in rice kernels by using image processing techniques
108	<b>IGDIP108</b>	Inter-Relay Cooperation: A New Paradigm for Enhanced Relay-Assisted FSO Communications
109	<b>IGDIP109</b>	Hand Gesture Recognition using accelerometer sensor for traffic light control system
110	<b>IGDIP110</b>	Virtual instrument for recognition of radiators with machine vision
111	<b>IGDIP111</b>	Real time blood image processing application for malaria diagnosis using mobile phones
112	<b>IGDIP112</b>	Automated real-time surveillance for ambient assisted living using an omnidirectional camera
113	<b>IGDIP113</b>	Intelligent water metering system: An image processing approach (MATLAB simulations)
114	<b>IGDIP114</b>	Object recognition for industrial image
115	<b>IGDIP115</b>	A Vision-Based Broken Strand Detection Method for a Power-Line Maintenance Robot