



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 9585858586 / 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 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 :

Website	www.ingenstech.com
Email	projects@ingenstech.com
Mobile	+91 95 85 85 85 86 / 87 / 88
Landline	044-24348584 / 42663268
Address	1 st Fl, No:12, Ramasamy Street, T.Nagar, Chennai – 17 (Behind Fathima Jewellers)
Route Map	Click Here



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S.No	Code	ROBOTICS / UAV / QUADCOPTERS
1	IGROB01	Design of a vision-based autonomous robot for street navigation
2	IGROB02	Nonlinear Multiple Integrator and Application to Aircraft Navigation
3	IGROB03	Development of a robotic arm for dangerous object disposal
4	IGROB04	Robotic Explosive Charging in Mining and Construction Applications
5	IGROB05	Microcontroller based robotic arm: Operational to gesture and automated mode
6	IGROB06	Control of robotic arm manipulator with haptic feedback using programmable system on chip
7	IGROB07	Autonomous Flight of a Commercial Quadrotor
8	IGROB08	Internet of vehicles: From intelligent grid to autonomoucars and vehicular clouds
9	IGROB09	Towards a New Modality-Independent Interface for aRobotic Wheelchair
10	IGROB10	SLAM-based autonomous wheelchair navigation system for AAL scenarios
11	IGROB11	Task Partitioning in a Robot Swarm: Object Retrieval as a Sequence of Subtasks with Direct Object Transfer
12	IGROB12	Multi-robot system for real-time sensing and monitoring
13	IGROB13	Virtual laboratory for a remotely operating robot arm
14	IGROB14	Design of a Robotic Mobility System with a Modular Haptic Feedback Approach to Promote Socialization in Children
15	IGROB15	Trajectory planning for car-like robots in unknown, unstructured environments
16	IGROB16	Ultrasonic-sensor deployment strategies and use of smartphone sensors for mobile robot navigation in indoor environment
17	IGROB17	Local path planning in a complex environment for self-driving car
18	IGROB18	Remote access of FPGA robot via internet
19	IGROB19	Modeling of a complex-shaped underwater vehicle
20	IGROB20	GSM Controlled Robotics
21	IGROB21	Self-learning PD algorithms based on approximate dynamic programming for robot motion



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		planning
22	IGROB22	Safety Control of Industrial Robots Based on a Distributed Distance Sensor
23	IGROB23	Object-following robot using adaptive cruise control algorithm with IOIO
24	IGROB24	Development of an autonomous micro robot for swarm robotics
25	IGROB25	Automatic landing control of Unmanned Aerial Vehicles on moving platforms
26	IGROB26	The role of operator style on mission energy requirements for tele-operated unmanned ground vehicles
27	IGROB27	A synchronized visual-inertial sensor system with FPGA pre-processing for accurate real-time SLAM
28	IGROB28	Virtual reality head-tracking observation system for mobilerobot
29	IGROB29	Modelling an accelerometer for robot position estimation
30	IGROB30	Design of a Direct-Driven Linear Actuator for a High-Speed Quadruped Robot, Cheetaroid-I
31	IGROB31	Implementation of WSN which can simultaneously monitor temperature conditions and control robot for positional accuracy
32	IGROB32	Lane detection & localization for UGV in urban environment
33	IGROB33	Multisensor Fusion-Based Concurrent Environment Mapping and Moving Object Detection for Intelligent Service Robotics
34	IGROB34	RML Glove—An Exoskeleton Glove Mechanism With Haptics Feedback
35	IGROB35	Probability-Based Location Aware Design and On-Demand Robotic Intrusion Detection System
36	IGROB36	An approach towards rescue robotics in bore well environment
37	IGROB37	Modeling of underwater snake robots
38	IGROB38	The Impact of Human–Robot Interface Design on the Use of a Learning Robot System
39	IGROB39	Signage System for the Navigation of Autonomous Robots in Indoor Environments
40	IGROB40	A Robotic Crack Inspection and Mapping System for Bridge Deck Maintenance
41	IGROB41	Control of a multirotor outdoor aerial manipulator
42	IGROB42	Remote control robot using Android mobile device



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43	IGROB43	Accuracy Analysis of Dynamic-Wafer-Handling RoboticSystem in Semiconductor Manufacturing
44	IGROB44	Identification of Linear Models for the Dynamics of a Hovering Quadrotor
45	IGROB45	Development of wireless EMG control system for rehabilitation devices
46	IGROB46	Sensing and processing of bio-metric signals for use in low cost bio-robotic systems
47	IGROB47	Monitoring and controlling the combustion quality in thermal power plant boiler using image processing androbotic arm
48	IGROB48	Delay tolerant network for autonomous robotic vehiclecharging and hazard detection
49	IGROB49	Optimal Path Following for Differentially Flat Robotic Systems Through a Geometric Problem Formulation
50	IGROB50	GSM Controlled Robotics
51	IGROB51	Efficient Evaluation of Collisions and Costs on Grid Maps for Autonomous Vehicle Motion Planning
52	IGROB52	Quadrotors and Accelerometers: State Estimation with an Improved Dynamic Model
53	IGROB53	Traffic Sign Recognition for Autonomous Driving Robot
54	IGROB54	Remote access of FPGA robot via internet
55	IGROB55	Manipulator robot for crack detection and welding in underground process pipes
56	IGROB56	Modeling and Nonlinear Adaptive Control for Autonomous Vehicle Overtaking
57	IGROB57	Vision based guidance for robot navigation in agriculture
58	IGROB58	The detecting robot based on SOPC
59	IGROB59	Probability-Based Location Aware Design and On-DemandRobotic Intrusion Detection System
60	IGROB60	Towards a New Modality-Independent Interface for a Robotic Wheelchair
61	IGROB61	Real-time autonomous 3D navigation for tracked vehicles in rescue environments
62	IGROB62	Demonstration of a Semi-Autonomous Hybrid Brain–Machine Interface Using Human Intracranial EEG, Eye Tracking, and Computer Vision to Control a Robotic Upper Limb Prosthetic



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63	IGROB63	A Learning-Based Semi-Autonomous Controller for RoboticExploration of Unknown Disaster Scenes While Searching for Victims
64	IGROB64	Devising a solar powered standalone vehicle using GSMcommunication network
65	IGROB65	An intuitive multimodal haptic interface for teleoperation of aerial robots
66	IGROB66	Scaled position-force tracking for wireless teleoperation of miniaturized surgical robotic system
67	IGROB67	Motion Planning of Multi-docking System for Intelligent Mobile Robots
68	IGROB68	A small climbing robot for the intelligent inspection of nuclear power plants
69	IGROB69	EEG-Based Mobile Robot Control Through an Adaptive Brain–Robot Interface
70	IGROB70	Scheduling strategies of relay tracking for network-based multiple unmanned ground vehicles
71	IGROB71	Exploiting the use of information to improve coverage performance of robotic sensor networks
72	IGROB72	Effective destination determination for semi-autonomoussmart electric wheelchair based on history of human activity
73	IGROB73	Cooperative Search of Multiple Unknown Transient Radio Sources Using Multiple Paired Mobile Robots
74	IGROB74	The environmental cognition and agilely service in home service robot intelligent space based on multi-pattern information model and Zigbee wireless sensor networks
75	IGROB75	Comparison of two quadrotor dynamic models
76	IGROB76	The Safety of Domestic Robotics: A Survey of Various Safety-Related Publications
77	IGROB77	Group Mapping: A Topological Approach to Map Merging for Multiple Robots