

Why Ingens Tech ?

There are many compelling reasons for choosing Ingens Tech for your Project, Training and Career development activities, following are some of them.





KEY TO A GOOD PROJECT

Things to consider before selecting a project

EXPERTISE

It's always best to choose a domain you are familiar with, that way you will be in the best position to select a good project, that you can complete comfortably.

COMPLEXITY

Choose a project that is complex enough to be challenging and interesting, but not too complex to be completed in time.

COST

A good project need not necessarily be an expensive project too, plenty of excellent projects are possible at low costs

REALISTIC

The project and its scope should be realistic considering the resources that you have. Students very often go wrong with this because of lack of experience and guidance.

DURATION

What is the point in working on a project if you can't complete it in time? Planning the time line of your project is very important, to have a complete project for your demonstration.

AVAILABILITY

Before you start a project ensure that all the hardware and software required for the project are available to you. Given the limited time you have, there are no second chances.



“ We select our projects only after carefully checking these factors - The reason for our 100% successful track record over 10+ Years

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About this Projects Brochure

This brochure contains project ideas that are handpicked for ECE, EEE, EIE and related departments. Every project in this brochure has been thoroughly checked to ensure that it offer the right combination of learning, exposure and successful completion.

For Latest Project Ideas

In addition to this brochure, we continuously keep adding new projects almost on a daily basis which are updated on our website. We recommend that students also check our website for the very latest projects and technology options. Alternatively students can visit our office for the same.

EMBEDDED SYSTEMS

1	IGEM01	Smart wireless healthcare monitoring for drivers community
2	IGEM02	Smart ration card using RFID and GSM technique
3	IGEM03	Smartmote - An innovative autonomous Wireless Sensor Node architecture
4	IGEM04	Reliability of an in-vehicle warning system for railway level crossings - a user-oriented analysis
5	IGEM05	Design of vital sign monitor based on wireless sensor networks and telemedicine technology
6	IGEM06	Temperature and humidity monitoring through wireless sensor network using shortest path algorithm
7	IGEM07	Embedded system for home automation using SMS
8	IGEM08	Design and implementation of load cell based fuel level measurement
9	IGEM09	Smart Sensing Materials for Low-Cost Chipless RFID Sensor
10	IGEM10	New Design for Electronic Blood Pressure Monitor Based on GSM Module TC35i
11	IGEM11	Monitoring activities of daily living based on wearable wireless body sensor network
12	IGEM12	Velocity difference control based on dynamic tracking of safe following distance in the process of vehicle following
13	IGEM13	Implementing Intelligent Traffic Control System for Congestion Control, Ambulance Clearance, and Stolen Vehicle Detection
14	IGEM14	NFC enabled intelligent hospital appointment and medication scheduling
15	IGEM15	A new prototype of smart parking using wireless sensor networks
16	IGEM16	Development of an ambulatory ECG system based on Arduino and mobile telephony for wireless transmission
17	IGEM17	Apply of coal-bunker fire warning system based on ZigBee
18	IGEM18	A High-Resolution Sensor Network for Monitoring Glacier Dynamics
19	IGEM19	Remote access of robot via internet
20	IGEM20	Detecting illegal pickups of intercity buses from their GPS traces
21	IGEM21	A reliable and fast routing data transmission protocol for Wi-Fi based real-time patient monitoring system
22	IGEM22	Autonomous emergency stop system
23	IGEM23	Monitor and remote control of a heating cloth for the aged
24	IGEM24	Localization of objects based on inertial sensor data
25	IGEM25	Remote fish aquaculture monitoring system based on wireless transmission technology
26	IGEM26	Low cost heart rate monitoring device using Bluetooth
27	IGEM27	Wireless gesture recognition system using MEMS accelerometer
28	IGEM28	A Zigbee-Based Animal Health Monitoring System
29	IGEM29	Automated energy saving and safety system
30	IGEM30	Cloud based automatic street light monitoring system
31	IGEM31	The environmental cognition and agilely service in home service robot intelligent space based on multi-pattern information model and Zigbee wireless sensor networks
32	IGEM32	A novel supervisory control for residential building protection system
33	IGEM33	Smart, public buses information system
34	IGEM34	Distributed process monitoring and control
35	IGEM35	A portable oxygen concentration detection and monitor system using a smartphone and a portable sensor module
36	IGEM36	ZigBee wireless communication for monitoring renewable street light system
37	IGEM37	Designing of mobile controlled automatic Interactive Voice Response irrigation system
38	IGEM38	Live demonstration: A wearable wireless ECG acquisition and specification system
39	IGEM39	GPS guided farm mapping and waypoint tracking mobile robotic system
40	IGEM40	NFC Smart Tourist Card: Combining Mobile and Contactless Technologies towards a Smart Tourist Experience
41	IGEM41	Embedded microcontroller using GPS as a security resource for disabled people
42	IGEM42	Texas instruments MSP430 microcontroller based portable multi-purpose instrument for android platforms
43	IGEM43	A novel algorithm for secure Internet Banking with fingerprint recognition
44	IGEM44	Generation of digital signature from multi-feature biometric traits for digital right management control
45	IGEM45	Vehicle Data Acquisition and Telemetry

EMBEDDED SYSTEMS

46	IGEM46	Analysis of e-Toll card usage at Pondok Ranji Tollgate
47	IGEM47	A reliable and fast routing data transmission protocol for Wi-Fi based real-time patient monitoring system
48	IGEM48	Ultrasonic sensor system for ecology observation and timing synchronization of ZigBee network
49	IGEM49	Implementing Intelligent Traffic Control System for Congestion Control, Ambulance Clearance, and Stolen Vehicle Detection
50	IGEM50	Real time solid waste bin monitoring system framework using wireless sensor network
51	IGEM51	RFID-Based Sensors for Zero-Power Autonomous Wireless Sensor Networks
52	IGEM52	Autonomous tour guide robot by using ultrasonic range sensors and QR code recognition in indoor environment
53	IGEM53	Secure key management scheme based on ECC algorithm for patient's medical information in healthcare system
54	IGEM54	Lab-on-Phone: A Participatory Sensing system
55	IGEM55	Design of reverse search car system for large parking lot based on NFC technology
56	IGEM56	Development of a system for the glucose level in the blood monitoring
57	IGEM57	Model-Based Health Monitoring for a Vehicle Steering System With Multiple Faults of Unknown Types
58	IGEM58	Attendance System Using NFC Technology and Embedded Camera Device on Mobile Phone
59	IGEM59	Obstacle avoidance and orientation determination for a remote operated vehicle
60	IGEM60	Intelligent Fusion of Wi-Fi and Inertial Sensor-Based Positioning Systems for Indoor Pedestrian Navigation
61	IGEM61	Energy Efficient Environment Monitoring System Based on the IEEE 802.15.4 Standard for Low Cost Requirements
62	IGEM62	Wi-Fi Direct data transmission for wireless medical devices
63	IGEM63	Secured GPS based traffic monitoring system in pervasive environment
64	IGEM64	Biometric Access Control Implementation Using 32 bit Arm Cortex Processor
65	IGEM65	Estimating Speed Using a Side-Looking Single-Radar Vehicle Detector
66	IGEM66	Wireless Communication Infrastructure for a Short-Range Unmanned Aerial
67	IGEM67	Implementation of flash flood monitoring system based on wireless sensor network
68	IGEM68	An Efficient ZigBee-WebSocket Based M2M Environmental Monitoring System
69	IGEM69	Design and Implementation of a Sustainable Wireless BAN Platform for Remote Monitoring of Workers Health Care in Harsh Environments
70	IGEM70	Improved Use of Foot Force Sensors and Mobile Phone GPS for Mobility Activity Recognition
71	IGEM71	A novel algorithm for secure Internet Banking with finger print recognition
72	IGEM72	A secure biometrics-based remote user authentication scheme for secure data exchange
73	IGEM73	Closed-set Speaker Identification in Speech Gateways
74	IGEM74	Relay-by-smartphone: realizing multihop device-to-device communications
75	IGEM75	Low-cost obstacle detection device for sight impaired people
76	IGEM76	A toilet danger detection system for aged people
77	IGEM77	An Integrated Approach to Snowmelt Flood Forecasting in Water Resource Management
78	IGEM78	Smart ration card using RFID and GSM technique
79	IGEM79	Remote monitoring in home automation using low cost microcontroller
80	IGEM80	Home energy management systems: Design guidelines for the communication infrastructure

KEYWORDS

- NFC
- IEEE 802.15.4
- Hybrid Networks
- D2D Communication
- Embedded Webserver
- Bluetooth
- Wi -Fi
- GSM/GPRS



Which microcontroller is best for projects?
Ans: www.ingenstech.com



EMBEDDED SYSTEMS

81	IGEM81	A novel design of user responsive smart meter integrated automated EMS inn Supervisory Control and Data Acquisition interfaced smart grid
82	IGEM82	Smart Entrance Guard Control Based on RFID Card and ZigBee Authorization
83	IGEM83	Development of pulse width modulation based wireless RGB LED dimming control technology using smart phone
84	IGEM84	Implementation of 802.15.4 for designing of home automation and power monitoring system
85	IGEM85	Android interface based GSM home security system
86	IGEM86	Design and Performance Enhancements in Communication-Based Train Control Systems With Coordinated Multipoint Transmission and Reception
87	IGEM87	Location finder using Augmented Reality for railways assistance
88	IGEM88	Web-based remote monitoring system for nuclear power plant
89	IGEM89	The Application of ZigBee Technology to the Intelligent Bus Query System
90	IGEM90	Optical Vehicle-to-Vehicle Communication System Using LED Transmitter and Camera Receiver
91	IGEM91	NFC based secure mobile healthcare system
92	IGEM92	Harmful Gases Wireless Network Monitoring System Design
93	IGEM93	Android based smart home system with control via Bluetooth and internet connectivity
94	IGEM94	Collision detection system for vehicles in hilly and dense fog affected area to generate collision alerts
95	IGEM95	Presence detection, identification and tracking in smart homes utilizing bluetooth enabled smartphones
96	IGEM96	Enhanced biometric smart key scheme for smart card authentication
97	IGEM97	Power-efficient Interrupt-driven Algorithms for Fall Detection and Classification of Activities of Daily Living
98	IGEM98	A dynamic method to monitor public transport based on smart card and GPS Data
99	IGEM99	NavEye: Smart guide for blind students
100	IGEM100	A low cost multi-sensor approach for early warning in structural monitoring of buildings and structures
101	IGEM101	Application of automatic speaker verification techniques for forensic evidence evaluation
102	IGEM102	Voice communication based on ZigBee wireless sensor networks
103	IGEM103	An interactive LED lighting interface for high energy savings
104	IGEM104	Development of a mind-controlled Android racing game using a brain computer interface (BCI)
105	IGEM105	HOME FADS: A dedicated fire alert detection system using ZigBee wireless network
106	IGEM106	Fingerprint biometrics for ID document verification
107	IGEM107	The development of a visualization framework for fishing vessels at sea
108	IGEM108	A low cost COSPAS-SARSAT alternative for EPIRB transponder for local fishing boats
109	IGEM109	An S/Key-like One-Time Password Authentication Scheme Using Smart Cards for Smart Meter
110	IGEM110	Freighter fuel level detection and overload alarming system with safety notification via GSM
111	IGEM111	Performance Analysis of Zigbee Based Wireless Sensor Network for Remote Patient Monitoring
112	IGEM112	Advanced user interfaces for intelligent wheelchair system
113	IGEM113	Black Box: An emergency rescue dispatch system for road vehicles for instant notification of road accidents and post crash analysis
114	IGEM114	Low-cost saline droplet measurement system using for common patient room in rural public hospital
115	IGEM115	Agricultural monitoring system based on ant colony algorithm with centre data aggregation
116	IGEM116	Automated electric meter reading and monitoring system using ZigBee-integrated raspberry Pi single board computer via Modbus
117	IGEM117	Probability-Based Location Aware Design and On-Demand Robotic Intrusion Detection System
118	IGEM118	Integration Design Research on Police Digital Soldier Equipment System
119	IGEM119	RAReFall — Real-time activity recognition and fall detection system
120	IGEM120	Design and Implementation of Portable ECG and Body Temperature Monitor
121	IGEM121	A low cost industrial fuse changeover system with GSM based auto annunciation

122	IGEM122	Mobile enabled bus tracking and ticketing system
123	IGEM123	Multimodal biometric systems
124	IGEM124	Official Document Tracking System with iPhone Using Global Positioning System and Radio Frequency Identification Technology
125	IGEM125	Speech Recognition for Voice-Based Machine Translation
126	IGEM126	Data centre monitoring and alerting system using WSN
127	IGEM127	Architecture for Monitoring Urban Infrastructure and Analysis Method for a Smart-Safe City
128	IGEM128	Design and implementation of a bluetooth air finger mouse
129	IGEM129	A Low-Power Wireless Sensor for Online Ambient Monitoring
130	IGEM130	Real time metropolitan bus positionin system desing using GPS and GSM
131	IGEM131	A wearable wireless body area network for human activity recognition
132	IGEM132	A Distributed Scheme to Manage The Dynamic Coexistence of IEEE 802.15.4-Based Health-Monitoring WBANs
133	IGEM133	Design and implementation of a Radio on visible light system for indoor communication
134	IGEM134	Object-following robot using adaptive cruise control algorithm with IOIO
135	IGEM135	Smart steering wheel system for driver's emergency situation using physiological sensors and smart phone
136	IGEM136	Smartphone enabled connected vehicles pave the way to intelligent mobility
137	IGEM137	An industrial Wireless Sensor Networks framework for production monitoring
138	IGEM138	Integration of Drive-by-Wire with Navigation Control for a Driverless Electric Race Car
139	IGEM139	Design and Evaluation of Intelligent Tourist Guide System Based on Mobile Devices
140	IGEM140	Design of a multi-input-multiple-output visible light communication system for transport infrastructure to vehicle communication
141	IGEM141	Low-Cost Speaker and Language Recognition Systems Running on a Raspberry Pi
142	IGEM142	Full duplex device to device communication in cellular networks
143	IGEM143	Web based service to monitor automatic irrigation system for the agriculture field using sensors
144	IGEM144	The study on coal mine using the Bluetooth wireless transmission
145	IGEM145	Telemonitoring Physiological Parameters of a Patient from a Distance by Near Field Communication Mobile
146	IGEM146	Fuzzy Logic Based Stable On-Demand Multipath Routing Protocol for Mobile Ad Hoc Network
147	IGEM147	GSM based remote device controller using SIM548C
148	IGEM148	Experimental study of thumbprint-based authentication framework for ATM machines
149	IGEM149	Biometric attendance system
150	IGEM150	Design of smart home control system based on Cortex-A8 and ZigBee
151	IGEM151	An interoperable pillbox system for smart medication adherence
152	IGEM152	The smartphone-enabled DMM
153	IGEM153	A wrist -worn fall detection system using accelerometers and gyroscopes
154	IGEM154	Measurements and channel characterization for in-vehicle power line communications

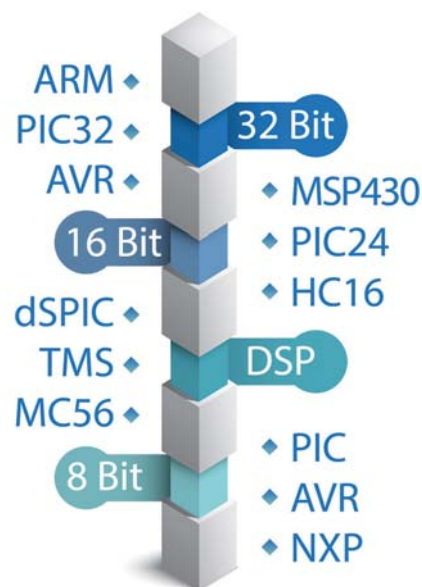
KEYWORDS

- Brain Control
- CAN
- VLC
- Multihop
- Biometrics
- GPS
- ISM Band RF
- Zigbee



Things to consider while selecting a project?
Ans: www.ingenstech.com

Maximum Options Endless Possibilities



EMBEDDED SYSTEMS

155	IGEM155	Design and implementation of energy data collection system using wireless fidelity (WiFi) module and current transformer
156	IGEM156	Reliable monitoring of oil and gas pipelines using wireless sensor network (WSN) — REMONG
157	IGEM157	A new approach of RFID and GSM assisted navigation system for VANETs
158	IGEM158	Development of a wireless sensor network for detecting fire and Gas leaks in a collapsing building
159	IGEM159	Remote control robot using Android mobile device
160	IGEM160	GPS based real time Emergency Aid System with analysis of latency in satellite communication
161	IGEM161	Remote monitoring and closed loop control system for social modernization in agricultural system using GSM and Zigbee technology
162	IGEM162	Development of an intelligent system for bank security
163	IGEM163	Zigbee-based intelligent street lighting system
164	IGEM164	Acquiring and analyzing electrocardiograms via smartphone to detect cardiovascular abnormalities
165	IGEM165	Hybrid indoor location system for museum tourist routes in augmented reality
166	IGEM166	ATM based remote healthcare monitoring system
167	IGEM167	RFID Technology for IoT-Based Personal Healthcare in Smart Spaces
168	IGEM168	Fraud Detection From Taxis' Driving Behaviors
169	IGEM169	Building a Practical Wi-Fi-Based Indoor Navigation System
170	IGEM170	A Health-IoT Platform Based on the Integration of Intelligent Packaging, Unobtrusive Bio-Sensor, and Intelligent Medicine Box
171	IGEM171	Devising a solar powered standalone vehicle using GSM communication network
172	IGEM172	Intelligent energy monitoring system based on ZigBee-equipped smart sockets
173	IGEM173	I am a smartphone and I know my user is driving
174	IGEM174	An ARM-7 based embedded energy efficient LED lighting system for domestic applications with user satisfaction
175	IGEM175	Many-to-all priority-based network-coding broadcast in wireless multihop networks
176	IGEM176	Ultralong-Range RFID-Based Wake-Up Radios for Wireless Sensor Networks
177	IGEM177	Real time building zone occupancy detection and activity visualization utilizing a visitor counting sensor network
178	IGEM178	Remote monitoring of energy consumption using Zigbee and GSM networking
179	IGEM179	CAWIS: Context aware wireless irrigation system
180	IGEM180	Electric vehicle energy consumption monitoring
181	IGEM181	A Novel Approach for HCI Using a MEMS Based Device
182	IGEM182	Internet of Things in Industries: A Survey
183	IGEM183	The Generic Design of a High-Traffic Advanced Metering Infrastructure Using ZigBee
184	IGEM184	A Device for Local or Remote Monitoring of Hand Rehabilitation Sessions for Rheumatic Patients
185	IGEM185	Intelligent Electrocardiogram Monitoring System for Early Arrhythmia Detection
186	IGEM186	An Arduino-based indoor positioning system (IPS) using visible light communication and ultrasound
187	IGEM187	Smart vehicle connectivity for safety applications
188	IGEM188	Intelligent Carpool Routing for Urban Ridesharing by Mining GPS Trajectories
189	IGEM189	Performance of uni-directional road side units in Vehicular Adhoc Networks
190	IGEM190	Advanced street lighting maintenance using GPS, light intensity measuring and incremental cost-effectiveness ratio
191	IGEM191	GSM Controlled Robotics
192	IGEM192	Voice recognition and touch screen control based wheel chair for paraplegic persons
193	IGEM193	MCS-51 microcontroller based industrial automation and control system using CAN protocol
194	IGEM194	Wireless Anti-Theft Alarm System for Automobiles Based on Thermoelectric Energy Harvesting Powered Glass Break Detection
195	IGEM195	A redundant solution for collective residences inflammable gas leaking monitoring using ultra-low power transmission system and automatic control
196	IGEM196	A Phase-Based Technique for Localization of UHF-RFIDTags Moving on a Conveyor Belt: Performance Analysis and Test-Case Measurements
197	IGEM197	Design of an NFC enabled bio-patch solution
198	IGEM198	neMEMSi: One step forward in wireless attitude and heading reference systems

EMBEDDED SYSTEMS

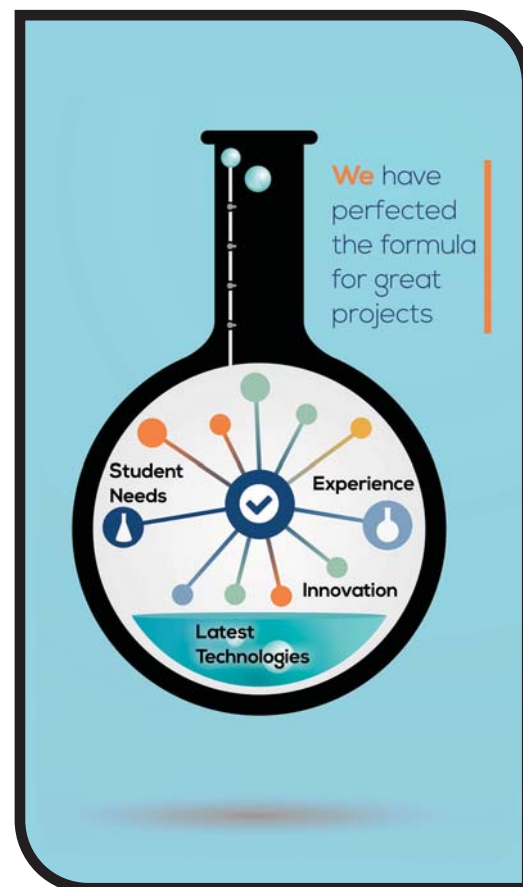
199	IGEM199	Secure Mobile Payment Systems
200	IGEM200	WSN based utility System for effective monitoring and control of household power consumption
201	IGEM201	RFID in Underground-Mining Service Applications
202	IGEM202	Multi-smart car control system design and research based on ZigBee
203	IGEM203	Virtual Traffic Signals by Cooperation among Vehicle-Mounted Mobile Computers
204	IGEM204	Design and Development of a Low-Cost Multisensor Inertial Data Acquisition System for Sailing
205	IGEM205	Design and development of android mobile based bus tracking system
206	IGEM206	A new smart fall-down detector for senior healthcare system using inertial microsensors
207	IGEM207	Ultrasonic sensor animal safety system
208	IGEM208	A Wireless Accelerometer-Based Automatic Vehicle Classification Prototype System
209	IGEM209	Development of real-time wireless monitoring system for greenhouses: Industrial Bluetooth application
210	IGEM210	A highly integrated hardware design implemented for a wireless healthcare monitoring system
211	IGEM211	An active transmission ModBus protocol based on Zigbee
212	IGEM212	An innovative wireless Cardiac Rhythm Management (iCRM) system
213	IGEM213	Design of ECG acquisition system based on Bluetooth wireless communication
214	IGEM214	Wireless remote switching system for controlling devices with an algorithm based DTMF detection
215	IGEM215	Intelligent system for vehicular accident detection and notification
216	IGEM216	Internet enabled tipping bucket rain gauge
217	IGEM217	Wireless Sensor Network-based air quality monitoring system
218	IGEM218	Landslide monitoring based on computer vision technology
219	IGEM219	Android interface based GSM home security system
220	IGEM220	Enhanced, Delay Dependent, Intelligent Fusion for INS/GPS Navigation System
221	IGEM221	Ultrasonic-sensor deployment strategies and use of smartphone sensors for mobile robot navigation in indoor environment
222	IGEM222	Advanced health care system using Zig-Bee enabled RFID technology
223	IGEM223	Vehicle Data Acquisition and Telemetry
224	IGEM224	Emergency Evacuation Base on Intelligent Digital Signage Systems
225	IGEM225	Solar panel and battery street light monitoring system using GSM wireless communication system
226	IGEM226	Vehicular Traffic Monitoring Using Bluetooth Scanning Over a Wireless Sensor Network
227	IGEM227	A ZigBee Based Multi-hop Health Monitoring System: Design and Performance Evaluation
228	IGEM228	RAMSES: RFID Augmented Module for Smart Environmental Sensing
229	IGEM229	An advanced plug-and-play network architecture for wireless body area network using HBC, Zigbee and NFC
230	IGEM230	An energy-efficient WSN-based traffic safety system
231	IGEM231	IoT gadget control on wireless AP at home
232	IGEM232	Automated car parking system commanded by Android application
233	IGEM233	A Privacy-Preserving Solution for Tracking People in Critical Environments
234	IGEM234	Hybrid brain computer interface in wheelchair using voicerecognition sensors

KEYWORDS

- NFC
- IEEE
- 802.15.4
- Adhoc
- Optical Networks
- Smart Card
- MEMS
- Women Safety
- Low Power WSN



What is an IEEE Project?
Ans: www.ingenstech.com



235	IGEM235	Smart home energy management system including renewable energy based on ZigBee and PLC
236	IGEM236	Architecture of web services interface for a Home Energy Management system
237	IGEM237	Solar powered wrist worn acquisition system for continuous photoplethysmogram monitoring
238	IGEM238	Proximity-based reminders using Bluetooth
239	IGEM239	Wireless sensor network based solution for nuclear radiation detection
240	IGEM240	Further Observations on Smart-Card-Based Password-Authenticated Key Agreement in Distributed Systems
241	IGEM241	A wireless automatic meter reading system based on digital image process and ZigBee-3G
242	IGEM242	Using a three-axis accelerometer and GPS module in a smart phone to measure walking steps and distance
243	IGEM243	Remote control robot using Android mobile device
244	IGEM244	Towards the era of wireless keys: How the IoT can change authentication paradigm
245	IGEM245	Locomotive monitoring system using wireless sensor networks
246	IGEM246	Implementation of wearable sensors for fall detection into smart household
247	IGEM247	Miniaturization of Robust UHF RFID Antennas for Use on Perishable Goods and Human Bodies
248	IGEM248	On-the-fly establishment of multihop wireless access networks for disaster recovery
249	IGEM249	Real Time Monitoring and Control System for Green House Based on 802.15.4 Wireless Sensor Network
250	IGEM250	Wireless sensor networks for efficient irrigation system using hybrid pv -wind system
251	IGEM251	Efficient vehicle to vehicle communication protocol for VANETs
252	IGEM252	Smart non-invasive wireless physiological monitoring system
253	IGEM253	Trusted Platform Module for Smart Cards
254	IGEM254	Android-based navigation system for elderly people in hospital
255	IGEM255	Rescue System with Vital Sign, Location and Attitude Sensing Together with Traffic Condition, Readiness of Helper Monitoring in Particular for Disabled and Elderly Persons
256	IGEM256	Vehicle location finder using Global position system and Global System for Mobile
257	IGEM257	Car navigation user interface based on a smartphone
258	IGEM258	An Intelligent Wearable E-Belt for Continuous Monitoring of Sinus Rhythm
259	IGEM259	Design of a multi-input-multiple-output visible light communication system for transport infrastructure to vehicle communication
260	IGEM260	Direct mobile-to-mobile communication: Paradigm for 5G
261	IGEM261	An automatic switchover mechanism between terrestrial and satellite transmission for anti-disaster BTS
262	IGEM262	Intelligent Fusion of Wi-Fi and Inertial Sensor-Based Positioning Systems for Indoor Pedestrian Navigation
263	IGEM263	Networking technology of fault indication system based on ZigBee
264	IGEM264	Development of a cell phone based vehicle remote control system
265	IGEM265	An advanced plug-and-play network architecture for wireless body area network using HBC, Zigbee and NFC
266	IGEM266	Design and implementation of cost effective surveillance robot
267	IGEM267	Diagnostic Device for Acute Cardiac Disease Using ECG and Accelerometer
268	IGEM268	Low power AMT acquisition network based on ZigBee and GPS
269	IGEM269	The GPS application for the control of the rail vehicle
270	IGEM270	Remote patient monitoring system for rural population using ultra low power embedded system
271	IGEM271	A Battery-Assisted Sensor-Enhanced RFID Tag Enabling Heterogeneous Wireless Sensor Networks
272	IGEM272	Design of pipeline displacement detecting system based on ZigBee wireless sensor networks
273	IGEM273	A middleware for intelligent environments in ambient assisted living
274	IGEM274	NFC based secure mobile healthcare system
275	IGEM275	Smart coffee vending machine using sensor and actuator networks
276	IGEM276	Intelligent wall mounted wireless fencing system using wireless sensor actuator network
277	IGEM277	Design and implementation of Wireless Menu Card
278	IGEM278	The Research and Implement of the Intelligent Parking Reservation Management System Based on ZigBee Technology

EMBEDDED SYSTEMS

279	IGEM279	Advance energy management using GSM technology
280	IGEM280	A security- and privacy-driven hybrid biometric template protection technique
281	IGEM281	Monitoring and remote control of energy consumption by WiFi networks
282	IGEM282	Wireless multihop networking for a scalable indoor temperature monitoring system
283	IGEM283	Seismic early warning alert system (SEWAS)
284	IGEM284	Design and realization of intelligent infrared data communication system
285	IGEM285	System engineering and deployment of envirobat An urban air pollution monitoring device
286	IGEM286	Smartphone based continuous monitoring system for home-bound elders and patients
287	IGEM287	Fire rescue system in railways using LabVIEW
288	IGEM288	The design of smart home control system
289	IGEM289	Wireless sensor networks based control system development for water supply infrastructure
290	IGEM290	Neighbor Table Based Shortcut Tree Routing in ZigBee Wireless Networks
291	IGEM291	Unified mobile public health care system (UMPHCS) for underdeveloped countries
292	IGEM292	Collaborative work in class rooms with handheld devices using bluetooth and WLAN
293	IGEM293	ZigBee-Assisted Power Saving Management for Mobile Devices
294	IGEM294	Localization algorithm based on Zigbee wireless sensor network with application to an active shopping cart
295	IGEM295	Smart public transport system
296	IGEM296	A Carpooling Recommendation System for Taxicab Services
297	IGEM297	Improving GPS-based vehicle positioning for Intelligent Transportation Systems
298	IGEM298	Data Cleaning for RFID and WSN Integration
299	IGEM299	Wireless Node Control and Monitoring System Using Web Enabled Interface
300	IGEM300	Development of an intelligent system for bank security
301	IGEM301	Discrete-Event Shop-Floor Monitoring System in RFID-Enabled Manufacturing
302	IGEM302	Zigbee network-based detection of anomaly detection runway on airport
303	IGEM303	Energy-Efficient Brightness Control and Data Transmission for Visible Light Communication
304	IGEM304	Spectral matching based voice activity detector for improved speaker recognition
305	IGEM305	Decision-making on seafloor surveillance infrastructure site for Earthquake and Tsunami monitoring in Western Japan
306	IGEM306	Intelligent management of urban garden irrigation
307	IGEM307	Efficient and secure dynamic ID-based remote user authentication scheme for distributed systems using smartcards
308	IGEM308	Effective load management and unethical monitoring for heavy duty vehicles using embedded technology
309	IGEM309	Signage System for the Navigation of Autonomous Robots in Indoor Environments
310	IGEM310	Personalised phone placement recognition in daily life using RFID tagging
311	IGEM311	Safety Alert & Advisory Information system using vehicular communication (SAVER)
312	IGEM312	Low cost smart phone controlled car security system

KEYWORDS

- GSM/GPRS
- Wi-Fi
- D2D Communication
- MEMS
- QR code Reader
- Brain Control
- VLC
- Biometrics



Ingredients of a good project abstract?
Ans: www.ingenstech.com

Reliability Through Quality

We only use original and the best quality devices and parts for your projects, from the following leading manufacturers.



EMBEDDED SYSTEMS

313	IGEM313	Patinhas: Service to locate missing animals
314	IGEM314	Visualization of wireless sensor networks using ZigBee's Received Signal Strength Indicator (RSSI) for indoor localization and tracking
315	IGEM315	Application of fire monitoring and personnel evacuation in subway station based on Wireless Sensor Network
316	IGEM316	Design and implementation of energy audit system employing embedded device
317	IGEM317	LocAAP: Location based actuation of appliances
318	IGEM318	Mining freight truck's trip patterns from GPS data
319	IGEM319	Development of prototype system for monitoring and computing greenhouse gases with Unmanned Aerial Vehicle (UAV) deployment
320	IGEM320	Novel Light-Emitting-Diode Dimming Approach Based on Cloud Computing for Protected Cultivation
321	IGEM321	Bluetooth Low Energy (BLE) based blood pressure monitoring system
322	IGEM322	An ARM-based embedded gesture recognition system using a data glove
323	IGEM323	Using wireless measuring devices and Tablet PC to improve the efficiency of vital signs data collection in hospital
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326	IGEM326	The Design and Implementation of a guard against theft and alarm system with embedded telephone access and KEELOQ technique
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349	IGEM349	Efficient event detection in public transport tracking
350	IGEM350	A heart rate detection method for low power exercise intensity monitoring device
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352	IGEM352	Vehicle classification and accurate speed calculation using multi-element piezoelectric sensor
353	IGEM353	Robot Guided Crowd Evacuation
354	IGEM354	NFC based applications for visually impaired people - A review

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356	IGEM356	Traffic Surveillance System Based on Computer Vision and its Application
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359	IGEM359	Field tests of two-way television audience measurement system
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364	IGEM364	Bluetooth technologie for Industrial Application
365	IGEM365	Design and clinical feasibility of personal wearable monitor for measurement of activity and environmental exposure
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375	IGEM375	Poster Abstract: Integration of Different Smart Metering Systems Based on Wireless Communication
376	IGEM376	Human body: The future communication channel for WBAN
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380	IGEM380	A Novel Approach to Circular Edge Detection for Iris Image Segmentation
381	IGEM381	Real time condition monitoring system for tomato ripening
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384	IGEM384	Research on cross-communication based on real-time Ethernet POWERLINK
385	IGEM385	Interface design for multi-parameter health monitoring instrument based on ARM-9 embedded system
386	IGEM386	A roadmap to continuous biometric authentication on mobile devices
387	IGEM387	Android Smartphone based body area network for monitoring and evaluation of medical parameters
388	IGEM388	Design of surveillance and safety system for underground coal mines based on low power WSN

KEYWORDS

- Wi-Fi
- NFC
- Embedded Webserver
- Magnetometer
- Voice Recognition
- ARM 9
- Optical Networks
- Fingerprint



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18	IGDIP18	Accelerometer-based hand gesture recognition system for interaction in digital TV
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44	IGDIP44	An Automated Nighttime Vehicle Counting and Detection System for Traffic Surveillance
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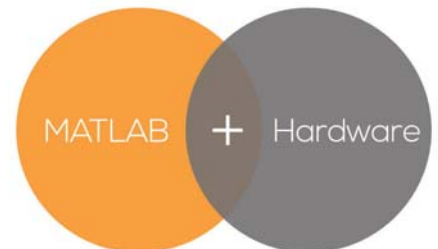
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79	IGDIP79	Robust driver fatigue recognition using image processing
80	IGDIP80	Video-based detection and analysis of driver distraction and inattention
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KEYWORDS

- OFDM
- ANFIS
- Keyless Decryption
- Gesture recognition
- DIP in Labview
- Free Space Optics
- 3D Pixel Transposition
- Neural Network



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85	IGDIP85	A Gaussian mixture model and support vector machine approach to vehicle type and colour classification
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95	IGDIP95	Video surveillance of epilepsy patients using color image processing
96	IGDIP96	Indoor positioning method based on inertial data, RSSI and compass from handheld smart-device
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ARDUINO

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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
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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
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23	IGADU23	Photovoltaic plant array reconfiguration: Design of a new device
24	IGADU24	Segment wise communication delay measurement for Smart Grid applications
25	IGADU25	Development of an ambulatory ECG system based on Arduino and mobile telephony for wireless transmission
26	IGADU26	Controlling the operating conditions in an operating room
27	IGADU27	Arduino based power semiconductors tester for urban traction systems
28	IGADU28	AndroRC: An Android remote control car unit for search missions
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30	IGADU30	Implementation of WSN which can simultaneously monitor temperature conditions and control robot for positional accuracy
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32	IGADU32	A flexible and cost effective gate drive platform for rapid prototyping
33	IGADU33	Software application for analyzing ZigBee network performance in university courses
34	IGADU34	The color of the light: A remote laboratory that uses a smart device that connects teachers and students
35	IGADU35	Development of wireless EMG control system for rehabilitation devices
36	IGADU36	Developing the control system of a syringe infusion pump
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38	IGADU38	Reconfiguration strategies to reduce mismatch effects on PV array: An Arduino-based prototype
39	IGADU39	A Framework for Environmental Monitoring with Arduino-Based Sensors Using Restful Web Service
40	IGADU40	Physical indicators of cyber attacks against a rescue robot
41	IGADU41	Low flow data logger in membrane distillation: An interdisciplinary laboratory in process control
42	IGADU42	Monitoring and control of a reptile terrarium
43	IGADU43	Brain Machine Interface for wrist movement using Robotic Arm
44	IGADU44	On-cloth wearable E-nose for monitoring and discrimination of body odor signature
45	IGADU45	API for communication between Labview and Arduino UNO
46	IGADU46	Pole counter for diametrically magnetized ring or disk magnets
47	IGADU47	Web based service to monitor automatic irrigation system for the agriculture field using sensors
48	IGADU48	A co-simulation platform for medium/low voltage monitoring and control applications
49	IGADU49	Implementation of flash flood monitoring system based on wireless sensor network
50	IGADU50	Low cost combined voltage and current transducer for Smart Meters

KEYWORDS

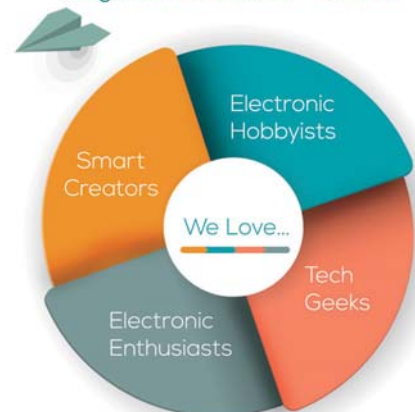
- Smart metering
- Arduino + Labview
- Smart Grids
- Bainwave Control
- Indoor Navigation
- IMU
- Quadcopte
- Mind Control Robot



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53	IGADU53	Design of Arduino-based communication agent for rural Indian microgrids
54	IGADU54	Real time fuzzy controller for quadrotor stability control
55	IGADU55	Preliminary design for a paratransit tracking system to inform planning decisions in urban centers in developing countries
56	IGADU56	Implementation of Mind Control Robot
57	IGADU57	PMA: Power Monitoring Application for Android
58	IGADU58	Hybrid battery charging system using solar PV and utility grid
59	IGADU59	Big Data Infrastructure for analyzing data generated by Wireless Sensor Networks
60	IGADU60	An Arduino-based indoor positioning system (IPS) using visible light communication and ultrasound
61	IGADU61	A flexible and reconfigurable controller design for buck converters
62	IGADU62	Control of robotic hand simulator via human hand motion analysis based on EMG
63	IGADU63	A very simple user access control technique through smart device authentication using Bluetooth communication
64	IGADU64	Vehicular pollution monitoring using IoT
65	IGADU65	Rapid prototyping of low cost 1 DOF haptic interfaces
66	IGADU66	Design of microcontroller based multi-functional relay for automated protective system
67	IGADU67	Evaluation of signal smoothing algorithms for stability of a quadrotor MAV
68	IGADU68	Educational haptic controller based on Arduino platform
69	IGADU69	The role of MAC routing in wireless sensor networks
70	IGADU70	Rapid development of a balloon-borne CDH system using COTS electronics and open source software
71	IGADU71	When Arduino Meets Kinect: An Intelligent Ambient Home Entertainment Environment
72	IGADU72	KinardCar: Auxiliary Game in Formation of Young Drivers, Utilizing Kinect and Arduino Integration
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74	IGADU74	Air ventilation system for server room security using Arduino

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6	IGRP06	Low-Cost Speaker and Language Recognition Systems Running on a Raspberry Pi
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8	IGRP08	Optical Flow Motion Detection on Raspberry Pi
9	IGRP09	Design of tracked robot with remote control for surveillance
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12	IGRP12	A Drill Signal Detection Technology for Handheld Medical Drilling Device
13	IGRP13	On the Delay Characteristics for Point-to-Point Links using Random Linear Network Coding with On-the-Fly Coding Capabilities
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15	IGRP15	Internet based electronic prototyping system for memristor characterization
16	IGRP16	Design of an embedded based control system for efficient sorting of waste plastics using Near Infrared Spectroscopy
17	IGRP17	Wireless sensor network and web based information system for asthma trigger factors monitoring
18	IGRP18	H-box: Interconnecting devices across local networks
19	IGRP19	Raspberry Pi based interactive home automation system through E-mail
20	IGRP20	Throughput vs. Delay in Lossy Wireless Mesh Networks with Random Linear Network Coding
21	IGRP21	WSN for traffic monitoring using Raspberry Pi board
22	IGRP22	Automated electric meter reading and monitoring system using ZigBee-integrated raspberry Pi single board computer via Modbus

ELECTRICAL / POWER ELECTRONICS / POWER SYSTEMS / MACHINES

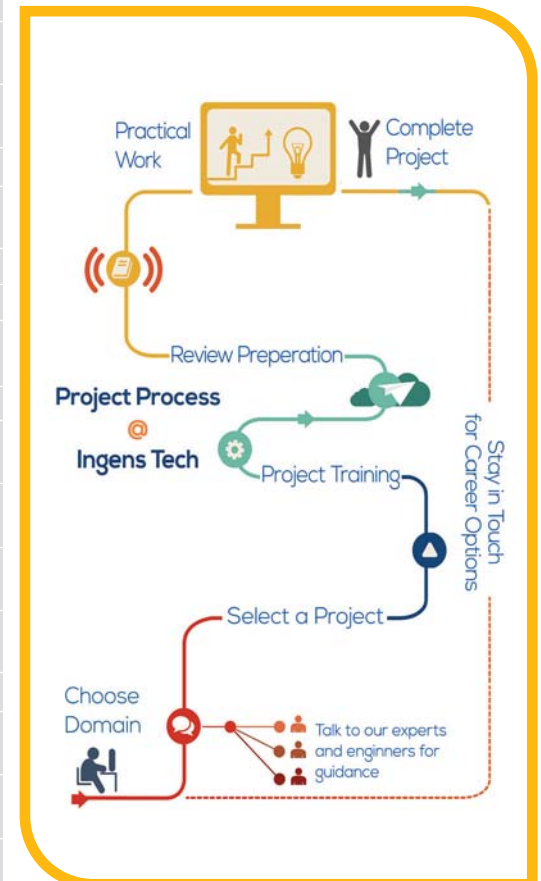
1	IGELE01	Design and implementation of a low cost Distribution Transformer monitoring system for remote electric power grids
2	IGELE02	Improvement of power quality in distributed generation systems using hybrid power filters
3	IGELE03	PLC-based photovoltaic system management for smart home energy management system
4	IGELE04	The Generic Design of a High-Traffic Advanced Metering Infrastructure Using ZigBee
5	IGELE05	Adaptive PID Speed Control Design for Permanent Magnet Synchronous Motor Drives
6	IGELE06	An Isolated Multiport DC–DC Converter for Simultaneous Power Management of Multiple Different Renewable Energy Sources
7	IGELE07	Development of control application using power line communication
8	IGELE08	Advanced metering infrastructure performance using European low-voltage power line communication networks
9	IGELE09	Implementation of Power Measurement System with Fourier Series and Zero-Crossing Algorithm
10	IGELE10	Experimental implementation techniques of P&O MPPT algorithm for PV pumping system
11	IGELE11	A power management strategy for hybrid photovoltaic diesel system with battery storage
12	IGELE12	Modified Incremental Conductance Algorithm for Photovoltaic System Under Partial Shading Conditions and Load Variation
13	IGELE13	Improved Angular Displacement Estimation Based on Hall-Effect Sensors for Driving a Brushless Permanent-Magnet Motor
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19	IGELE19	Roadmap for smart metering deployment for Indian smart grid
20	IGELE20	Detection and classification of induction motor faults using Motor Current Signature Analysis and Multilayer Perceptron
21	IGELE21	Design and implementation of a low cost Distribution Transformer monitoring system for remote electric power grids
22	IGELE22	Modeling and simulation of a hybrid power generation system of wind turbine, micro-turbine and solar heater cells
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25	IGELE25	Application of Advanced Metering Infrastructure in Smart Grids
26	IGELE26	Control of BLDC motor based on adaptive fuzzy logic PID controller
27	IGELE27	Hybrid self — Sustainable green power generation system for powering green data center
28	IGELE28	A new variable step size INC MPPT method for PV systems
29	IGELE29	PLC-based photovoltaic system management for smart home energy management system
30	IGELE30	Intelligent Substation Automation Systems for robust operation of smart grids
31	IGELE31	General Smart Meter Guidelines to Accurately Assess the Aging of Distribution Transformers
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33	IGELE33	Migration from RS-485 to EtherCAT for closed loop step motor drive
34	IGELE34	High reliable and deterministic Substation Automation System network based on cobweb architecture
35	IGELE35	Remote monitoring of power frequency electrical signals employing GSM network
36	IGELE36	Reducing the standby power consumption of a home audio system

KEYWORDS

- SPWM
- Fuzzy-PID
- Hybrid Power
- Multilevel Inverte
- Smart Grid
- Converters
- D- STATCOM
- Closed Loop Control



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38	IGELE38	Solar panel and battery street light monitoring system using GSM wireless communication system
39	IGELE39	Intelligent total sliding-mode control with dead-zone parameter modification for a DC motor driver
40	IGELE40	Using M2M communication for shaving peak of energy demand
41	IGELE41	Motor Temperature Monitoring Based on Impedance Estimation at PWM Frequencies
42	IGELE42	Automated electric meter reading and monitoring system using ZigBee-integrated raspberry Pi single board computer via Modbus
43	IGELE43	Robust predictive control for networked control and application to DC-motor control
44	IGELE44	Application of DSTATCOM for surplus power circulation in MV and LV distribution networks with single-phase distributed energy resources
45	IGELE45	Research on energy-saving control of standby household appliances
46	IGELE46	Remote monitoring of energy consumption using Zigbee and GSM networking
47	IGELE47	Optimal design of a PV/fuel cell hybrid power system for the city of Brest in France
48	IGELE48	System used for Power Quality monitoring in a distribution grid
49	IGELE49	A low cost smart meter network for a smart utility
50	IGELE50	PLC communication in Smart Grid
51	IGELE51	Digital control of MPPT structures for water pumping systems
52	IGELE52	Smooth speed control for low speed high torque permanent magnet synchronous motor using proportional integral resonant controller
53	IGELE53	Maintaining balanced three-phase load voltage during single-phase auto-reclosing in medium voltage distribution lines
54	IGELE54	The design of smart electrical outlet for Smart Home base on power line communication
55	IGELE55	A new MPPT control method of photovoltaic grid-connected inverter system
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67	IGELE67	One wire PLC system for inter-floor connectivity
68	IGELE68	Application of Wide Area Monitoring Protection and Control in an electricity distribution network
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81	IGELE81	Modeling and control of solar/fuel cell powered hybrid power systems
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87	IGELE87	Real time simulation and analysis of maximum power point tracking (MPPT) techniques for solar photo-voltaic system
88	IGELE88	Hybrid low-power Wind Generation and PV gridconnected system with HPC, PC and MPPT control
89	IGELE89	Distributed Voltage Control with Electric Springs: Comparison with STATCOM
90	IGELE90	A GSM based low cost weather monitoring system for solar and wind energy generation
91	IGELE91	Networked-Based Hybrid Distributed Power Sharing and Control for Islanded Microgrid Systems
92	IGELE92	Design of an electrical motor with wide speed range for the in-wheel drive in a heavy duty off-road vehicle
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106	IGELE106	Regenerative Braking System of Electric Vehicle Driven by Brushless DC Motor
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109	IGELE109	Load-voltage-based single-sensor MPPT controller for multi-channel PV systems
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115	IGELE115	Smart home energy management system including renewable energy based on ZigBee and PLC
116	IGELE116	Bearing fault analysis by signal energy calculation based signal processing technique in Squirrel Cage Induction Motor
117	IGELE117	Advanced Motor Monitoring and Diagnostics
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KEYWORDS

- SEPIC Converter
- Distributed Generation
- Phantom Load
- BLDC Control
- Green Energy
- Intelligent Drives
- HVDC
- MPO- MPPT



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122	IGELE122	A Novel Speed Measurement Method for a High-Speed BLDC Motor Based on the Signals From the Rotor Position Sensor
123	IGELE123	Smart Fault Location for Smart Grid Operation Using RTUs and Computational Intelligence Techniques
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130	IGELE130	A multifunctional real-time power quality monitoring system using Stockwell transform
131	IGELE131	Flexible street lamp lighting system management through Power Line
132	IGELE132	Power Control and Management in a Hybrid AC/DC Microgrid
133	IGELE133	Systematic experimental evaluation of a novel regenerative braking system on DC motor drive using super-capacitors
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135	IGELE135	Architecture of web services interface for a Home Energy Management system
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157	IGELE157	Design of an intelligent transformer management system
158	IGELE158	Investigation on power line communication in aircrafts
159	IGELE159	Protection algorithm based on differential voltage measurement for MTDC grids
160	IGELE160	Performance analysis of a power line communication system with multi-carrier DS-CDMA
161	IGELE161	FPGA-based real time incremental conductance maximum power point tracking controller for photovoltaic systems
162	IGELE162	Online Detection of Induction Motor's Stator Winding Short-Circuit Faults
163	IGELE163	Research on DC Line Protection
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170	IGELE170	Diversity Relaying for Parallel Use of Power-Line and Wireless Communication Networks
171	IGELE171	Multipath Modeling of Automotive Power Line Communication Channels
172	IGELE172	An interactive LED lighting interface for high energy savings
173	IGELE173	Fault Location for Transmission Lines Using Wavelet
174	IGELE174	Direct Torque Control of Brushless DC Motor Drives With Improved Reliability
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176	IGELE176	Global fan speed control considering non-ideal temperature measurements in enterprise servers
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178	IGELE178	An approach for power system fault diagnosis using current samples towards smart grid operation
179	IGELE179	Adaptive PI Control of STATCOM for Voltage Regulation
180	IGELE180	Zigbee-based intelligent street lighting system
181	IGELE181	Classification of fault analysis of HVDC systems using artificial neural network
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183	IGELE183	Design and Application of ZigBee Wireless Techniques for an Intelligent House Lighting Control System
184	IGELE184	Applicability of narrowband power line communication in an LVDC distribution network
185	IGELE185	Advanced metering infrastructure performance using European low-voltage power line communication networks

KEYWORDS

- Embedded PLC
- Process Control
- Interactive Systems
- Fuzzy PID
- Profibus
- Modbus
- Industrial Networks
- HMI/MMI



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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

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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 Network Technology
23	IGPLC23	Time Synchronization of Automation Controllers for Power Applications
24	IGPLC24	The key technology research for embedded soft PLC control
25	IGPLC25	Design of Interconnection Gateway in Elevator Remote Monitoring System
26	IGPLC26	A low cost mobile platform for educational robotic applications
27	IGPLC27	PLC-Based PV Plants Smart Monitoring System: Field Measurements and Uncertainty Estimation
28	IGPLC28	Zigbee based monitoring and control of melter process in sugar industry
29	IGPLC29	Experiential Learning of Digital Communication Using LabVIEW
30	IGPLC30	Multi-protocol communications for intelligent low-voltage circuit breaker
31	IGPLC31	Flash flood warning system using SCADA system: Laboratory level
32	IGPLC32	Multi-channel data acquisition and data logging for Green House application
33	IGPLC33	An active transmission ModBus protocol based on Zigbee
34	IGPLC34	CAN/LIN-Bus protocol. Implementation of a low-cost serial communication network
35	IGPLC35	Low power embedded controlled sensor network for agricultural applications
36	IGPLC36	Implementation of Modbus Communication Protocol based on ARM Coretx-M0
37	IGPLC37	Design, verification, and performance of a MODBUS-CAN adaptation layer
38	IGPLC38	Distance education in energy efficient drive technologies by using remote workplace
39	IGPLC39	Wireless Sensor System According to the Concept of IoT (Internet of Things)
40	IGPLC40	Time synchronization of automation controllers for power applications
41	IGPLC41	Realization of adaptable PID controller within an industrial automated system
42	IGPLC42	Cost-effective and real-time SCADA home energy monitoring system
43	IGPLC43	Automation of a distributed generation system
44	IGPLC44	Secure integration of the Home Energy Management System to the battery management system in the customer domain of the smart grid
45	IGPLC45	Design, implementation and experimental validation of explicit MPC in programmable logic controller
46	IGPLC46	Design of network complementary monitoring system based on LabVIEW
47	IGPLC47	An Integrated WSAN and SCADA System for Monitoring a Critical Infrastructure
48	IGPLC48	Electrical integration in oil & gas integrated control and safety system using IEC 61850
49	IGPLC49	A fault-tolerant backbone for IEEE 802.15.4 based networks
50	IGPLC50	Dynamic voltage restorer using the combination of fuzzylogic and EPLL control strategies: An optimized implementation
51	IGPLC51	It Takes a Village: Social SCADA and Approaches to Community Engagement in Isolated Microgrids
52	IGPLC52	A novel design of user responsive smart meter integrated automated EMS inn SCADA interfaced smart grid
53	IGPLC53	In-vehicle FlexRay bus monitoring system
54	IGPLC54	Programmable logic controllers and transient heat models
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56	IGPLC56	Remote monitoring in home automation using low cost microcontroller
57	IGPLC57	Automated electric meter reading and monitoring system using ZigBee-integrated raspberry Pi single board computer via Modbus
58	IGPLC58	Sequence controller synthesis for automated guided vehicle systems Using ordinary Petri nets
59	IGPLC59	Secure web based home automation: Application layer based security using embedded programmable logiccontroller
60	IGPLC60	A distribution loads forecast methodology based on transmission grid substations SCADA Data
61	IGPLC61	Automation of measurement and data collection for gas filling line
62	IGPLC62	Design of an ARM9-based embedded industrial personal computer system
63	IGPLC63	Design and scheduling of networked control systems based on CAN bus
64	IGPLC64	MCS-51 microcontroller based industrial automation and control system using CAN protocol
65	IGPLC65	Narrowband PLC for LV smart grid services, beyond Smart Metering

LABVIEW / VIRTUAL INSTRUMENTATION

1	IGLAB01	Development of cost effective ECG data acquisition system for clinical applications using LabVIEW
2	IGLAB02	Smart soldier assistance using WSN
3	IGLAB03	Numerical relay development environment
4	IGLAB04	Identification and feature extraction of moving vehicles in LabVIEW
5	IGLAB05	Design and Application of ZigBee Wireless Techniques for an Intelligent House Lighting Control System
6	IGLAB06	Low-cost remote laboratories for renewable energy in distance education
7	IGLAB07	Implementation of Power Measurement System with Fourier Series and Zero-Crossing Algorithm
8	IGLAB08	API for communication between Labview and Arduino UNO
9	IGLAB09	Distance training of computer-based measurements and instrument control
10	IGLAB10	Low-cost I-V tracer for photovoltaic modules and strings
11	IGLAB11	Wireless transmission of alarm signals from baby incubators to neonatal nursing station
12	IGLAB12	Virtual instrument for recognition of radiators with machine vision
13	IGLAB13	Development of plough-able RFID sensor network systems for precision agriculture
14	IGLAB14	Virtual laboratories in cloud infrastructure of educational institutions
15	IGLAB15	A low cost portable oscilloscope based on Arduino and GLCD
16	IGLAB16	Implementation of automated demand side energy monitoring on TOD basis using LabVIEW
17	IGLAB17	Acceleration data acquisition and processing system for structural health monitoring
18	IGLAB18	A LabVIEW based power analyzer
19	IGLAB19	FPGA Implementation of Software Defined Radio Based Flight Termination System
20	IGLAB20	Design and implementation of the moving workpiece sorting system based on LabVIEW
21	IGLAB21	Experiential Learning of Digital Communication Using LabVIEW
22	IGLAB22	Implementation of fuzzy-PID controller to liquid level system using LabVIEW
23	IGLAB23	Integration of LabVIEW-based virtual instruments to modern respirology diagnostics
24	IGLAB24	Implementation of Real Time Control Algorithm for Gait Assistive Exoskeleton Devices for Stroke Survivors
25	IGLAB25	The application of Labview in mine hydrology wireless monitoring system
26	IGLAB26	Gate driver of DC-DC boost converters using national instruments LabVIEW and NImyDAQ
27	IGLAB27	The multi-point pressure and temperature measurement system for aerodynamic tunnel
28	IGLAB28	Sensors network based on mobile robots
29	IGLAB29	A complete virtual instrument for measuring and analyzing human stress in real time
30	IGLAB30	Wireless sensor network protocol developed for microcontroller based Wireless Sensor units, and data processing with visualization by LabVIEW
31	IGLAB31	Optical systems for the detection and recognition of fish in rivers
32	IGLAB32	Vision inspection system for pharmaceuticals
33	IGLAB33	Test point optimization process for a real-time vibration monitoring system on a differential axle fixed rig
34	IGLAB34	Comparison of different DC motor positioning control algorithms
35	IGLAB35	Implementation of WSN which can simultaneously monitor temperature conditions and control robot for positional accuracy
36	IGLAB36	Real-Time Finger Tracking for Virtual Instruments
37	IGLAB37	Identification and real time control of a hybrid tank system through virtual instrumentation

KEYWORDS

- DIP in Labview
- Process Control
- Motor Control
- TCP/IP Networks
- Hospital Networking
- Fuzzy PID
- Remote Lab
- Robotic Control



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3 Things You Didn't Know About LabVIEW

01 You don't always need expensive DAQ cards

02 Microcontrollers can be interfaced with LabVIEW directly

03 LabVIEW is not just for Instrumentation it can do lot more

LABVIEW / VIRTUAL INSTRUMENTATION

38	IGLAB38	Development of a respiratory rate monitoring device for mice anesthesia induction chamber
39	IGLAB39	Enhancement of remotely controlled laboratory for Active Noise Control and acoustic experiments
40	IGLAB40	Prototype for the estimation and evaluation of walking velocity using acceleration transducers
41	IGLAB41	Counting of cigarettes in cigarette packets using LabVIEW
42	IGLAB42	LabVIEW based remote laboratory for advanced motion control
43	IGLAB43	Induction generator optimized operation for small-scale wind power in program LabVIEW
44	IGLAB44	Prototype development of a home-based heart rate monitoring system using virtual instrumentation platform
45	IGLAB45	Systematic experimental evaluation of a novel regenerative braking system on DC motor drive using super-capacitors
46	IGLAB46	HOBOT: A customizable home management system with a surveillance RoBOT
47	IGLAB47	A LabVIEW-based PI controller for controlling CE 105 coupled tank system
48	IGLAB48	Detection and control of corrosion in buried gas pipe line using LabVIEW
49	IGLAB49	LABVIEW based expert system for detection of heart abnormalities
50	IGLAB50	The realization of cyclic serial port communication based on LabVIEW
51	IGLAB51	Design and development of a networked health monitoring and control system
52	IGLAB52	Remote GSM module monitoring and Photovoltaic system control
53	IGLAB53	LabVIEW based design of heart disease detection system
54	IGLAB54	Level control of a spherical tank system using conventional & intelligent controllers
55	IGLAB55	An alternative distributed control using Labview
56	IGLAB56	Data acquisition system developed for optimized wind tunnel study on aerospace vehicles
57	IGLAB57	Harmful Gases Wireless Network Monitoring System Design
58	IGLAB58	Design of high performance system-on-chips using Field Programmable Gate Arrays (FPGA)
59	IGLAB59	A multifunctional real-time power quality monitoring system using Stockwell transform
60	IGLAB60	Data Fusion and Fault Diagnosis for Flexible Arrayed pH Sensor Measurement System Based on LabVIEW
61	IGLAB61	Computer based radioactivity measurement with acquisition and monitoring radiation data using LabVIEW
62	IGLAB62	Hard Disk Drive Servo System Based on Field-Programmable Gate Arrays
63	IGLAB63	Real time monitoring of vital signs using wireless technique
64	IGLAB64	Design of network complementary monitoring system based on LabVIEW
65	IGLAB65	Toward developing a smart wheelchair for user physiological stress and physical activity monitoring
66	IGLAB66	LabVIEW based design of heart disease detection system
67	IGLAB67	Fire rescue system in railways using LabVIEW
68	IGLAB68	Design and implementation of the electric gripper control system based on the DSP
69	IGLAB69	Web app for a remote electronics instrumentation lab
70	IGLAB70	Mechatronics system for tire pressure control
71	IGLAB71	Real-time measurement of frequency using affordable rotary encoder and LabVIEW
72	IGLAB72	A Zigbee-Based Animal Health Monitoring System
73	IGLAB73	Development and implementation of an advanced remotely controlled vibration laboratory
74	IGLAB74	Application of Wireless Sensor Network in remote monitoring: Water-level sensing and temperature sensing, and their application in agriculture

BIOMEDICAL

1	IGBM01	Determining Wellness through an Ambient Assisted Living Environment
2	IGBM02	Intrabody Communication
3	IGBM03	A Level-Crossing Based QRS-Detection Algorithm for Wearable ECG Sensors
4	IGBM04	ECG Biometric with Abnormal Cardiac Conditions in Remote Monitoring System
5	IGBM05	WE-CARE: An Intelligent Mobile Telecardiology System to Enable mHealth Applications
6	IGBM06	Zigbee and GSM based patient health monitoring system
7	IGBM07	Low-cost MCU solution for measuring HRV using SpO2 sensor
8	IGBM08	Development of cost effective ECG data acquisition system for clinical applications using LabVIEW
9	IGBM09	Wireless transmission of alarm signals from baby incubators to neonatal nursing station
10	IGBM10	Motor rehabilitation based on brain machine interface and Microsoft Kinect
11	IGBM11	A Brain-Computer Interface-Based Vehicle Destination Selection System Using P300 and SSVEP Signals

12	IGBM12	Sound transmission through the human body with digital weaver modulation (DWM) method
13	IGBM13	Prototype early warning system for heart disease detection using Android application
14	IGBM14	Control of robotic hand simulator via human hand motion analysis based on EMG
15	IGBM15	Smart wireless healthcare monitoring for drivers community
16	IGBM16	Development of wireless EMG control system for rehabilitation devices
17	IGBM17	Bluetooth Low Energy (BLE) based blood pressure monitoring system
18	IGBM18	Design and implementation of heart rate measurement device using wireless system
19	IGBM19	An Assistive Navigation System Based on Augmented Reality and Context Awareness for People With Mild Cognitive Impairments
20	IGBM20	A novel pulseoximeter for bluetooth synchronized measurements in a body sensor network
21	IGBM21	An Instrumented Insole for Long Term Monitoring Movement, Comfort, and Ergonomics
22	IGBM22	Remote patient monitoring system for rural population using ultra low power embedded system
23	IGBM23	Speed control of the Implantable Centrifugal Blood Pump to avoid aortic valve stenosis: Simulation and implementation
24	IGBM24	Intelligent Closed-Loop Insulin Delivery Systems for ICU Patients
25	IGBM25	Indoor hospital communication systems: An integrated solution based on power line and visible light communication
26	IGBM26	Implementation of a real-time ECG signal processor
27	IGBM27	A Configurable and Low-Power Mixed Signal SoC for Portable ECG Monitoring Applications
28	IGBM28	EMG-based continuous control method for electric wheelchair
29	IGBM29	Ultra-low power design of wearable cardiac monitoring systems
30	IGBM30	Galvanic Coupling Transmission in Intrabody Communication: A Finite Element Approach
31	IGBM31	Diagnostic Device for Acute Cardiac Disease Using ECG and Accelerometer
32	IGBM32	An enhanced fall detection system for elderly person monitoring using consumer home networks
33	IGBM33	LABVIEW based expert system for detection of heart abnormalities
34	IGBM34	Micro-electrode arrays for multi-channel motor unit EMG recording
35	IGBM35	EEG-based brain connectivity analysis of states of unawareness
36	IGBM36	Investigation of Galvanic-Coupled Intrabody Communication Using the Human Body Circuit Model
37	IGBM37	Implementing Intelligent Traffic Control System for Congestion Control, Ambulance Clearance, and Stolen Vehicle Detection
38	IGBM38	Design of vital sign monitor based on wireless sensor networks and telemedicine technology
39	IGBM39	Medical Data Compression and Transmission in Wireless Ad Hoc Networks
40	IGBM40	Toward developing a smart wheelchair for user physiological stress and physical activity monitoring
41	IGBM41	An open and configurable embedded system for EMG pattern recognition implementation for artificial arms
42	IGBM42	Design and Implementation of Portable ECG and Body Temperature Monitor
43	IGBM43	Wireless body area networks: Status and opportunities
44	IGBM44	Evaluation of the NeuroSky MindFlex EEG headset brain waves data
45	IGBM45	Real time monitoring of vital signs using wireless technique
46	IGBM46	Acquisition and processing real-time EMG signals for prosthesis active hand movements
47	IGBM47	Human body: The future communication channel for WBAN
48	IGBM48	A multi-to-one short-range wireless communication system for the smart ICU physiology telemetry system
49	IGBM49	Brain Computer Interface-Based Smart Living Environmental Auto-Adjustment Control System in UPnP Home Networking
50	IGBM50	A low-power, wireless, wrist-worn device for long time heart rate monitoring and fall detection
51	IGBM51	Implementation of Mind Control Robot
52	IGBM52	Personal Lung Function Monitoring Devices for Asthma Patients

KEYWORDS

- Brain Wave Control
- Blind Navigation
- ECG Transmission
- Smartphone Life Saver
- Rehabilitation Aids
- Blood Analysis in DIP
- Reverse Iontophoresis
- EMG
- EEG



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ROBOTICS / UAV / QUADCOPTERS

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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 autonomous cars and vehicular clouds
9	IGROB09	Towards a New Modality-Independent Interface for a Robotic 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 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
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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
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34	IGROB34	RML Glove—An Exoskeleton Glove Mechanism With Haptics Feedback
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41	IGROB41	Control of a multirotor outdoor aerial manipulator
42	IGROB42	Remote control robot using Android mobile device
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50	IGROB50	GSM Controlled Robotics

ROBOTICS / UAV / QUADCOPTERS

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54	IGROB54	Remote access of FPGA robot via internet
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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-Demand Robotic 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
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63	IGROB63	A Learning-Based Semi-Autonomous Controller for Robotic Exploration of Unknown Disaster Scenes While Searching for Victims
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70	IGROB70	Scheduling strategies of relay tracking for network-based multiple unmanned ground vehicles
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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

KEYWORDS

- Disabled Friendly
- Defence Robot
- Mind Wave Controlled
- Indoor Blue Printing
- Autonomous Robot
- Industrial Material Handling
- Android Controlled
- Quadcopter



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KEYWORDS

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