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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 the last 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 2013-14. Most of the projects on the list are based on IEEE base papers for 2013-14. 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.

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S.No	Wireless Communication & Networks	CODE
1	Mitigation of Optical Background Noise in Light-Emitting Diode (LED) Optical Wireless Communication Systems	INWLC01
2	Challenges and conditions for wireless machine-to-machine communications in industrial environments	INWLC02
3	Reliable Wireless Communication Networks for Demand Response Control	INWLC03
4	LED and CMOS Image Sensor Based Optical Wireless Communication System for Automotive Applications	INWLC04
5	Sensorized Glove for Measuring Hand Finger Flexion for Rehabilitation Purposes	INWLC05
6	Performance analysis of optical wireless communication system using pulse width modulation	INWLC06
7	Towards an isochronous wireless communication system for industrial automation	INWLC07
8	Magnetically coupled wireless communication for buried environmental sensor	INWLC08
9	Wireless communication integrated active noise control system for infant incubators	INWLC09
10	A Study on Visitors Tracking Method Using Wireless Communication	INWLC10
11	The implementation of multi-micro-controller communication system based on RF1101 wireless module	INWLC11
12	Intelligent vehicle monitoring system using wireless communication	INWLC12
13	Technologies and networks supporting maritime wireless mesh communications	INWLC13
14	A novel communication-based train control (CBTC) system with cooperative wireless relaying	INWLC14
15	Enabling Mobile Devices for Home Automation Using ZigBee	INWLC15
16	Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee Network of Devices and Sensors	INWLC16
17	Performance evaluation of Wireless Sensor Networks based on ZigBee technology in smart home	INWLC17
18	Water environment monitoring system based on ZigBee wireless sensor network	INWLC18
19	Wireless remote monitor and control system based on Zigbee and web	INWLC19
20	Metro overhead tanks monitoring system using ZigBee based WSN	INWLC20
21	Automatic speed and torque monitoring in induction motors using ZigBee and SMS	INWLC21
22	Health monitoring solution using dedicated ZigBee sensor network	INWLC22



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23	Robust home automation scheme using cognitive ZigBee network	INWLC23
24	Design of household control system based on ZigBee, GSM and TCP/IP protocol	INWLC24
25	Controlling and monitoring process in industrial automation using Zigbee	INWLC25
26	ZigBee wireless sensor network for radiation monitoring at nuclear facilities	INWLC26
27	Research on mobile robot perceptual system based on Zigbee	INWLC27
28	Management of Mechanical Vibration and Temperature in Small Wind Turbines Using Zigbee Wireless Network	INWLC28
29	The Generic Design of a High Traffic Advance Metering Infrastructure Using ZigBee	INWLC29
30	An integrity monitoring system for substation connections using ZigBee wireless sensor network	INWLC30
31	ZigBee and ATmega32 based wireless digital control and monitoring system For LED lighting	INWLC31
32	Performance analysis of ZigBee based Load Control and power monitoring system	INWLC32
33	An automated cloud based vehicular emission control system using Zigbee	INWLC33
34	Real Time Wireless Monitoring and Control of Water Systems Using Zigbee 802.15.4	INWLC34
35	Design of ZigBee based WSN for smart demand responsive home energy management system	INWLC35
36	Environment monitoring and early warning system of facility agriculture based on heterogeneous wireless networks	INWLC36
37	Attendant robot for elderly service using sensor network system	INWLC37
38	Design of Home Automation Network based on CC2530	INWLC38
39	Passenger BUS alert system for easy navigation of blind	INWLC39
40	Instrumentation for safe vehicular flow in intelligent traffic control systems using wireless networks	INWLC40
41	A pollution monitoring system with hybrid wireless transmission	INWLC41
42	A Smart and Contemporary Home Security System using 802.15.4 standard	INWLC42
43	A fault preventive wireless sensor sewer system for urban infrastructure management infusing embedded systems	INWLC43
44	Autonomous wireless sensor network for greenhouse environmental conditions monitoring	INWLC44
45	An Icing On-Line Monitoring System of Transmission Lines Based on WSN	INWLC45
46	Wireless based load control and power monitoring system	INWLC46



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47	Design of electronic shelf label systems based on ZigBee	INWLC47
48	Real-time barrier lakes monitoring and warning system based on wireless sensor network	INWLC48
49	Connected intelligent home based on the Internet of Things	INWLC49
50	A low cost smart shopping facilitator for visually impaired	INWLC50
51	IEEE 802.15.4 wireless network application in real-time automation systems	INWLC51
52	An efficient Wireless Sensor Network-based water quality monitoring system	INWLC52
53	Integrated wireless sensor network for large scale intelligent systems	INWLC53
54	Low-Cost Wireless System for Measuring Energy Efficiency in Industry	INWLC54
55	A system for remote operation of devices: Helpful for elderly and disabled people	INWLC55
56	PLEMS: Plug Load Energy Management Solution for Enterprises	INWLC56
57	Design and deployment of a heart rate monitoring system in a senior center	INWLC57
58	Biomedical sensor network for cardiovascular fitness and activity monitoring	INWLC58
59	Remote control system of smart appliances based on wireless sensor network	INWLC59
60	Wireless Sensor Network for multi-storey building: Design and implementation	INWLC60
61	Traffic Signal Control System Based on Wireless Technology	INWLC61
62	Low cost ultrasonic wireless distributed security system for intrusion detection	INWLC62
63	Household power outlet overload protection and monitoring using cost effective embedded solution	INWLC63
64	A rescue-assist wireless sensor networks for large building	INWLC64
65	Detection and protection of the attacks to the sheep and goats using an intelligent wireless sensor network	INWLC65
66	TeleAssistant - Assisted living platform applied to fall detection	INWLC66
67	A Service-Oriented Auto Managed System for Transportation Applications	INWLC67
68	Wireless access control system based on IEEE 802.15.4	INWLC68
69	Low Cost Arduino/Android-Based Energy-Efficient Home Automation System with Smart Task Scheduling	INWLC69
70	Solar powered water quality monitoring system using wireless sensor network	INWLC70



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71	Environment monitoring and device control using ARM based embedded controlled sensor network	INWLC71
72	A microcontroller-based e-emergency system using wireless adhoc networks	INWLC72
73	A distributed, bandwidth-efficient accident prevention system for interurban VANETs	INWLC73
74	Fast and Secure Multihop Broadcast Solutions for Intervehicular Communication	INWLC74
75	Vehicular traffic monitoring using Bluetooth	INWLC75
76	A Common Interface for Bluetooth-based Health Monitoring Devices	INWLC76
77	Real-time bluetooth communication between an FPGA based embedded system and an Android phone	INWLC77
78	An automated student attendance tracking system using Bluetooth and EyeOS	INWLC78
79	Implementation of wireless data transmission in monitoring and control	INWLC79
80	Remote Monitoring System of ECG and Human Body Temperature Signals	INWLC80
81	Real-Time Street Parking Availability Estimation	INWLC81
82	A Communication-Based Appliance Scheduling Scheme for Consumer-Premise Energy Management Systems	INWLC82
83	Dynamic Traffic Control with Fairness and Throughput Optimization Using Vehicular Communications	INWLC83
84	Broadband Free Space Optical urban links for next generation infrastructures and services	INWLC84
85	Prototype of a PLC based communication system for residential electrical consumption measurement	INWLC85
86	LLCPS and SISO: A TLS-based framework with RFID for NFC P2P retail transaction processing	INWLC86
87	Early discovery of chronic non-attenders by using NFC attendance management system	INWLC87
88	An NFC based consumer-level counterfeit detection framework	INWLC88
89	iSCAPS - Innovative Smart Car Park System integrated with NFC technology and e-Valet function	INWLC89
90	An Anonymous Car Rental System Based on NFC	INWLC90
91	A NFC-based Concept for Medication Related Patient Services	INWLC91
92	NFC-enabled smartphone application for drug interaction and drug allergy detection	INWLC92
93	A Study on the NFC-Based Mobile Parking Management System	INWLC93
94	NFC identification system for fuel dispensing control on petrol station	INWLC94



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95	Expansion of information system with NFC technology for visually impaired passengers	INWLC95
96	The design and implementation of intelligent assessment management system using NFC	INWLC96
97	"VOICE MAPS" — portable, dedicated GIS for supporting the street navigation and self-dependent movement of the blind	INWLC97
98	A Wireless On-The-Go Industrial Safety System for Workers Safety in Hazardous Environments	INWLC98
99	Near Field Communication for pilgrim services	INWLC99

S.No	Embedded Industrial Networks & Protocols	CODE
1	Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks	INENP01
2	Non-Intrusive Healthcare System in Global Machine-to-Machine Networks	INENP02
3	A Security Layer for Smartphone-to-Vehicle Communication Over Bluetooth	INENP03
4	Enhancing vibration analysis by embedded sensor data validation technologies	INENP04
5	Performance of HTTP Protocol in Networked Control Systems	INENP05
6	Reconfigurable Computing in Next-Generation Automotive Networks	INENP06
7	Smart Grid Infrastructure Using a Hybrid Network Architecture	INENP07
8	Introduction to Industrial Control Networks	INENP08
9	Accessible display design to control home area networks	INENP09
10	An Optimal Power Scheduling Method for Demand Response in Home Energy Management System	INENP10
11	A Communication-Based Appliance Scheduling Scheme for Consumer-Premise Energy Management Systems	INENP11
12	Dynamic Traffic Control with Fairness and Throughput Optimization Using Vehicular Communications	INENP12
13	Multiagent Reinforcement Learning for Integrated Network of Adaptive Traffic Signal Controllers	INENP13
14	Distributed Control to Ensure Proportional Load Sharing and Improve Voltage Regulation in Low-Voltage DC Microgrids	INENP14
15	Design and development Of PIC microcontroller based vehicle monitoring system using Controller Area Network (CAN) protocol	INENP15
16	Controller Area Network for intelligent vehicular systems	INENP16



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17	A CAN bus based system for monitoring and fault diagnosis in wind turbine	INENP17
18	Battery management system by using CAN communication based on DSP platform	INENP18
19	Locking and unlocking of theft vehicles using CAN (Theft Control System)	INENP19
20	The design of a distributed control system based on CAN bus	INENP20
21	Internet-Based Human-Vehicle Interface for Ubiquitous Telematics	INENP21
22	Design and Implementation of a MVB Network Controller for Coal Mine Environment Monitoring	INENP22
23	Monitoring system of harmful substances emission at Compression Ignition engine with Exhaust Gas Recirculation	INENP23
24	Online monitoring and detecting of wood drying kilns' parameters based on embedded system	INENP24
25	Machine-to-Machine: Possible applications in industrial networks	INENP25
26	Control of an industrial robot using Ethernet Application to a V+ running controller	INENP26
27	Implementation of networked control systems using programmable controller based Ethernet network	INENP27
28	Design and Implementation of Embedded Web Computer Remote Control System based on MSP430	INENP28
29	The design and implementation of vehicle electrical switch box based on CAN bus	INENP29
30	Identifying nodes in a master-slave-fieldbus	INENP30
31	Computer Communication Within Industrial Distributed Environment	INENP31
32	The Design and Development of OMRON Multi-PLC Control System Based on Multi-Net	INENP32
33	The design and implementation of wireless sensor network monitoring and control system based on modbus/tcp	INENP33
34	Design and development of the air conditioning system by using OPC UA specifications and Modbus protocol	INENP34
35	The application and research of the liquid level control technology used in mineral flotation process which based on the modbus communication protocol	INENP35
36	Development of data acquisition system for hybrid power plant using MODBUS	INENP36
37	Prepaid energy meters network via power system communication	INENP37
38	The implementation of PLC monitoring system based on OPC	INENP38
39	Design Electric Closed-Loop of Multidrive NC Servo Control System Based on LabVIEW	INENP39



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40	Lab-by-wire: Fully web-based hands-on embedded systems laboratory	INENP40
41	An Embedded Remote Temperature Measurement System	INENP41
42	Way-finding Electronic Bracelet for visually impaired people	INENP42
43	A smarter toll gate based on Web of Things	INENP43
44	Proposed framework for underwater sensor cloud for environmental monitoring	INENP44
45	Hybrid mine wide communication system for surveillance and safety of the miners in underground coal mines	INENP45
46	Design and implementation of a on-board device for photovoltaic panels monitoring	INENP46
47	Extending CAN over the air: An interconnection study with IEEE802.11	INENP47
48	Building Automation and Smart Cities: An Integration Approach Based on a Service-Oriented Architecture	INENP48
49	Design and development Of PIC microcontroller based vehicle monitoring system using Controller Area Network (CAN) protocol	INENP49
50	Thin Client based Power and Cost efficient Servers for Automation Systems	INENP50
51	Virtual Instrumentation Based Noiseless Networking For Industrial Automation	INENP51
52	Thin Client Server based Tele medical system over TCP/IP Networks	INENP52
53	e Virtual Panels for Global Industrial Control	INENP53
54	Hierarchical Industrial networks using LIN Sub network Implementation with VI based Control Panels	INENP54
55	Outdoor Visible Light Communication for inter- vehicle communication using Controller AreaNetwork	INENP55
56	A Distributed Industry Networked Monitoring System Based On ARM And CAN Bus	INENP56

S.No	Electrical : Power Electronics Systems Machines	CODE
1	A Power Electronics Equalizer Application for Partially Shaded Photovoltaic Modules	INELE01
2	A Compact and Integrated Multifunctional Power Electronic Interface for Plug-in Electric Vehicles	INELE02
3	Fault Detection and Isolation Filters for Three-Phase AC-DC Power Electronics Systems	INELE03
4	Zero No-Load Power AC/DC Adapter for Electronic Equipment With Embedded Battery	INELE04
5	Application of the MPC to the Position Control of the Two-Mass Drive System	INELE05



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6	Bearing Fault Diagnosis for Direct-Drive Wind Turbines via Current-Demodulated Signals	INELE06
7	Discontinuous Decoupled PWMs for Reduced Current Ripple in a Dual Two-Level Inverter Fed Open-End Winding Induction Motor Drive	INELE07
8	A Motor-Drive-Based Operating Mechanism for High-Voltage Circuit Breaker	INELE08
9	Space-Vector PWM Control Synthesis for an H-Bridge Drive in Electric Vehicles	INELE09
10	A Nine-Level Inverter Topology for Medium-Voltage Induction Motor Drive With Open-End Stator Winding	INELE10
11	Common-Mode Filter Design for PWM Rectifier-Based Motor Drives	INELE11
12	Direct-drive low-speed wind energy conversion system incorporating axial-type permanent magnet generator and Z-source inverter with sensorless maximum power point tracking controller	INELE12
13	A Method for Fault Detection and Isolation Based on the Processing of Multiple Diagnostic Indices: Application to Inverter Faults in AC Drives	INELE13
14	Digital Control Strategy for Four Quadrant Operation of Three Phase BLDC Motor With Load Variations	INELE14
15	Discrete-Time Fuzzy Speed Regulator Design for PM Synchronous Motor	INELE15
16	Real-Time Parameter Estimation of PMDC Motors Using Quantized Sensors	INELE16
17	DSP Based Smart Sensorless Stepping Motor Driver for LHC Collimators	INELE17
18	Photovoltaic Power-Increment-Aided Incremental-Conductance MPPT With Two-Phased Tracking	INELE18
19	Design and Analysis of an MPPT Technique for Small-Scale Wind Energy Conversion Systems	INELE19
20	Design, Analysis, and Implementation of Solar Power Optimizer for DC Distribution System	INELE20
21	Differential Power Processing for Increased Energy Production and Reliability of Photovoltaic Systems	INELE21
22	Application of Narrowband Power-Line Communication in Medium-Voltage Smart Distribution Grids	INELE22
23	Immunity to Conducted Noise of Data Transmission Along DC Power Lines Involving Twisted-Wire Pairs Above Ground	INELE23
24	Analysis of Information and Power Transfer in Wireless Communications	INELE24
25	Smart Grid Infrastructure Using a Hybrid Network Architecture	INELE25
26	Developments of the in-home display systems for residential energy monitoring	INELE26
27	Wireless Network Design for Transmission Line Monitoring in Smart Grid	INELE27
28	Physical layer assist authentication technique for smart meter system	INELE28



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29	Design and implementation of an intelligent energy saving system based on standby power reduction for a future zero-energy home environment	INELE29
30	Design and implementation of a PIR luminaire with zero standby power using a photovoltaic array in enough daylight	INELE30
31	Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors	INELE31
32	A Comprehensive Investigation of Wireless LAN for IEC 61850–Based Smart Distribution Substation Applications	INELE32
33	A Real-Time Measuring and Control System for the World's First HTS Power Substation	INELE33
34	On-line short-circuit current analysis and preventive control to extend equipment life	INELE34
35	Fault location system for underground transmission line	INELE35
36	Transmission line faults detection, classification, and location using Discrete Wavelet Transform	INELE36
37	A Multi-Sensor Energy Theft Detection Framework for Advanced Metering Infrastructures	INELE37
38	Zigbee light link and its applications	INELE38
39	Wireless sensor network and stochastic models for household power management	INELE39
40	Extended smart meters-based remote detection method for illegal electricity usage	INELE40
41	GSM based automatic energy meter reading system with instant billing	INELE41
42	Prepaid energy meters network via power system communication	INELE42
43	A smart prepaid energy metering system to control electricity theft	INELE43
44	A Low-Frequency Versatile Wireless Power Transfer Technology for Biomedical Implants	INELE44
45	Modern Trends in Inductive Power Transfer for Transportation Applications	INELE45
46	Wireless Power Transmission: From Far Field to Near Field	INELE46
47	Application of computer and modern automation system for protection and optimum use of High voltage power transformer	INELE47
48	Digital-Controlled Single-Phase Transformer-Based Inverter for Non-Linear Load Applications	INELE48
49	Self tuned PID based speed control of PMDC drive	INELE49
50	Demand-side management of air conditioning cooling loads for intra-hour load balancing	INELE50
51	Peak-load period refrigerator control for end-consumer load management	INELE51
52	Control Strategy for Power Flow Management in a PV System Supplying DC Loads	INELE52



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53	A Multiagent Modeling and Investigation of Smart Homes With Power Generation, Storage, and Trading Features	INELE53
54	Intelligent load management for a shopping mall model in a smartgrid enviroment	INELE54
55	Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee Network of Devices and Sensors	INELE55
56	Non-Technical Loss Detection Using State Estimation and Analysis of Variance	INELE56
57	Design and Implementation of Energy Management System With Fuzzy Control for DC Microgrid Systems	INELE57
58	Induction motor fault diagnosis using labview	INELE58
59	Mobile virtual laboratory for renewable energy	INELE59
60	Automated efficiency measurement of three phase induction motor using LabVIEW	INELE60
61	An intelligent diagnostic system for the condition monitoring of AC motors	INELE61
62	The role of the RPL routing protocol for smart grid communications	INELE62
63	Theoretical Approach to the Feasibility of Power-Line Communication in Aircrafts	INELE63
64	Communication solution for implementing smart grid environment in the distribution network	INELE64
65	Household power outlet overload protection and monitoring using cost effective embedded solution	INELE65
66	An Optimal Power Scheduling Method for Demand Response in Home Energy Management System	INELE66
67	Optimization of standalone street light system with consideration of lighting control	INELE67
68	Modeling and simulation of a Microcontroller based power factor correction converter	INELE68
69	Low cost microcontroller-based inverter integrated in PV systems	INELE69
70	Microcontroller based single phase inverter	INELE70
71	DC motor speed control by embedded PI controller with hardware-in-loop simulation	INELE71
72	Self-Learning Phantom Load Cutoff System for Power Conservation	INELE72
73	Bi-Directional Data Transfer Using Powerlines Between Computers	INELE73
74	Closed Loop Bidirectional Torque Control Of Motor For Varying Load Torque Characteristics	INELE74
75	Fuzzy Logic Based Implementation Of Standby Power Reduction For Large Halls/Auditoriums/ Seminar Halls	INELE75



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76	Performance Improvement of Induction Motor Current Controllers in Field-Weakening Region for Electric Vehicles	INELE76
77	Closed Loop Speed Control Drive for DC Motor And Multiparameter Monitoring System	INELE77
78	Automation Using Bi-Directional Data Flow Through Power Lines Using X10 Protocol	INELE78
79	On-Line Automatic Switching Of Consumers' Connections For Improved Performance Of A Distribution Feeder	INELE79
80	Monitoring Of Remote Transformers And Transmission Lines Using GSM Technology	INELE80
81	Priority Scheduler for Real Time Power Allocation - A Hybrid Model	INELE81
82	Reprogrammable Energy Meters for Prevention of Energy abuse in Public Functions	INELE82
83	Broken Conductor Design For Overhead Line Distribution System	INELE83
84	Power conservation system based on Temperature histogram extraction using Micro-machined Thermopile Array	INELE84

S.No	GPS GIS Telematics	CODE
1	Front Sensor and GPS-Based Lateral Control of Automated Vehicles	INGGT01
2	Improving Accuracy of the Vehicle Attitude Estimation for Low-Cost INS/GPS Integration Aided by the GPS-Measured Course Angle	INGGT02
3	Approach to estimate travel time using sparsely sampled GPS data in urban networks	INGGT03
4	Driftless 3-D Attitude Determination and Positioning of Mobile Robots By Integration of IMU With Two RTK GPSs	INGGT04
5	Online Monitoring of Geological Storage and Leakage Based on Wireless Sensor Networks	INGGT05
6	LOBOT: Low-Cost, Self-Contained Localization of Small-Sized Ground Robotic Vehicles	INGGT06
7	A tracking system using location prediction and dynamic threshold for minimizing SMS delivery	INGGT07
8	Relative Positioning Enhancement in VANETs: A Tight Integration Approach	INGGT08
9	Location-Aware and Safer Cards: Enhancing RFID Security and Privacy via Location Sensing	INGGT09
10	Performance assessment of aided Global Navigation Satellite System for land navigation	INGGT10
11	UAV Position Estimation and Collision Avoidance Using the Extended Kalman Filter	INGGT11
12	T-Finder: A Recommender System for Finding Passengers and Vacant Taxis	INGGT12
13	New approach for routing in mobile ad-hoc networks based on ant colony optimisation with global positioning system	INGGT13



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14	Development and implementation of NMEA interpreter for real time GPS data logging	INGGT14
15	An efficient mobile GPS navigator, tracker and altimeter system for location based services	INGGT15
16	A facile approach to GPS navigation in unmanned ground vehicles	INGGT16
17	An overview of development GPS navigation for autonomous car	INGGT17
18	Application of a Wireless Sensor Network Technology Based on GPS for Structural Health Monitoring	INGGT18
19	GPS enabled speed control embedded system speed limiting device with display and engine control interface	INGGT19
20	The impact of GPS positioning errors on the hop distance in Vehicular Adhoc Networks (VANETs)	INGGT20
21	GPS Sensing Systems and Fuzzy Rules to Improve Urban Navigation Assistance and Planning	INGGT21
22	A vision and GPS-based real-time trajectory planning for MAV in unknown urban environments	INGGT22
23	GPS aided inter-vehicular wireless networking	INGGT23
24	Low-cost IMU/odometer/GPS integrated navigation aided with two antennae heading measurement for land vehicle application	INGGT24
25	Intelligent vehicle monitoring system using wireless communication	INGGT25
26	Combined communication and radio navigation system for small UAVs	INGGT26
27	QR code based navigation system for closed building using smart phones	INGGT27
28	Locking and unlocking of theft vehicles using CAN (Theft Control System)	INGGT28
29	Estimating vehicle state by GPS/IMU fusion with vehicle dynamics	INGGT29
30	Recent progress in application of GNSS and advanced communications for railway signaling	INGGT30
31	Automated Control System for Air Pollution Detection in Vehicles	INGGT31
32	Passenger BUS alert system for easy navigation of blind	INGGT32
33	Real-Time Street Parking Availability Estimation	INGGT33
34	Context aware wireless sensor system integrated with participatory sensing for real time road accident detection	INGGT34
35	Navigation control for exploration rover with Microwave Doppler sensors	INGGT35
36	A UAV system for inspection of industrial facilities	INGGT36
37	IMU and cable encoder data fusion for in-pipe mobile robot localization	INGGT37



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38	Campus assistant application on an Android platform	INGGT38
39	Preserving national animal using wireless sensor network based hotspot algorithm	INGGT39
40	Smart Global Positioning System for Autonomous Delivery Robots in Hospitals	INGGT40
41	Autonomous navigation of a small boat using IMU/GPS/digital compass integration	INGGT41
42	RFID-based Location System for Forest Search and Rescue Missions	INGGT42

S.No	Arduino	CODE
1	Data acquisition and control using Arduino-Android platform: Smart plug	INADU01
2	High-efficiency dual-axis solar tracking development using Arduino	INADU02
3	Development of a low cost dataglove based on arduino for virtual reality applications	INADU03
4	Design and control of a two-wheel self-balancing robot using the arduino microcontroller board	INADU04
5	Low Cost Arduino/Android-Based Energy-Efficient Home Automation System with Smart Task Scheduling	INADU05
6	The smartphone accessory heart rate monitor	INADU06
7	Physical computing and android in robotics	INADU07
8	Hardware and software tools for motion control of mobile robotic system	INADU08
9	Wireless network for electrocardiography	INADU09
10	ZigBee wireless sensor network for radiation monitoring at nuclear facilities	INADU10
11	A localization and an identification system of personnel in areas at risk using a wireless sensor network	INADU11
12	iSCAPS - Innovative Smart Car Park System integrated with NFC technology and e-Valet function	INADU12
13	A cost effective automotive control for people with restricted mobility	INADU13
14	Novel wireless performance monitoring for small wind turbines	INADU14



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S.No	Android	CODE
1	Instrumentation for laser physics and spectroscopy using 32-bit microcontrollers with an Android tablet interface	INAND01
2	Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks	INAND02
3	Remote Monitoring System of ECG and Human Body Temperature Signals	INAND03
4	Designing Android Applications Using Voice Controlled Commands: For Hands Free Interaction with Common Household Devices	INAND04
5	Real-time bluetooth communication between an FPGA based embedded system and an Androidphone	INAND05
6	Smart mobile system for health parameters follow ship based on WSN and android	INAND06
7	Personal health monitoring with Android based mobile devices	INAND07
8	An ubiquitous miniaturized android based ECG monitoring system	INAND08
9	A portable platform development for Android-based healthcare monitoring	INAND09
10	Somnography using unobtrusive motion sensors and Android-based mobile phones	INAND10
11	Remote control of model vehicles using Androidmobile devices	INAND11
12	Evaluation of the android-based fall detection system with physiological data monitoring	INAND12
13	Design and implementation of a wireless tensiometer with smartphone interface	INAND13
14	Pervasive health care system for monitoring oxygen saturation using pulse oximeter sensor	INAND14
15	A Remote Computer Control System Using Speech Recognition Technologies of Mobile Devices	INAND15
16	Mobile application for driver's health status remote monitoring	INAND16
17	Enabling Mobile Devices for Home Automation Using ZigBee	INAND17
18	A new mobile health application for an ubiquitous information system	INAND18
19	Portable wireless biomedical temperature monitoring system: Architecture and implementation	INAND19
20	Robot control design based on smartphone	INAND20
21	Vehicle anti-theft tracking system based on Internet of things	INAND21
22	Smartphones for smart wheelchairs	INAND22



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S.No	GSM CDMA Mobile Communication	CODE
1	GSM based automatic energy meter reading system with instant billing	INGSM01
2	Fall detection system for elderly with GSMcommunication and GPS localization	INGSM02
3	Silicon eyes: GPS-GSM based navigation assistant for visually impaired using capacitive touch braille keypad and smart SMS facility	INGSM03
4	Design of household control system based on ZigBee, GSM and TCP/IP protocol	INGSM04
5	Low cost electricity meter reading system using GSM	INGSM05
6	A smart prepaid energy metering system to control electricity theft	INGSM06
7	Simplified Secure Wireless Railway for Public Transport	INGSM07
8	Telehealth mobile system	INGSM08
9	Implementation of children tracking system on android mobile terminals	INGSM09
10	Intelligent vehicle monitoring system using wireless communication	INGSM10
11	Vehicle anti-theft tracking system based on Internet of things	INGSM11
12	ARM Hardware Plaform for Vehicular Monitoring and Tracking	INGSM12
13	Low cost EEG signal acquisition system	INGSM13
14	Design of cell phone operated robot using DTMF for object research	INGSM14
15	Design of an intelligent electric vehicle for blind	INGSM15
16	Energy management in an automated solar powered irrigation system	INGSM16
17	Pervasive health care system for monitoring oxygen saturation using pulse oximeter sensor	INGSM17
18	A GPS based traffic light pre-emption control system for emergency vehicles	INGSM18
19	Locking and unlocking of theft vehicles using CAN (Theft Control System)	INGSM19
20	Smart metering system	INGSM20
21	Location estimation in large indoor multi-floor buildings using hybrid networks	INGSM21
22	Environment monitoring and early warning system of facility agriculture based on heterogeneous wireless networks	INGSM22
23	CaregiverNet: A novel social support intervention for locating and securing wandering Alzheimer's patients as soon as possible	INGSM23



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24	A child-left-behind warning system based on capacitive sensing principle	INGSM24
25	Medicament dispensation system with patient supervision	INGSM25
26	A fault preventive wireless sensor sewer system for urban infrastructure management infusing embedded systems	INGSM26
27	Design and development of remote vehicle health monitoring system using context aware web services	INGSM27
28	Vehicular traffic monitoring using Bluetooth	INGSM28
29	Power quality metering unit with networking capability	INGSM29
30	Embedded system for remote monitoring of OBD bus	INGSM30
31	Remote environmental monitoring system for application in industry and landfill sites	INGSM31
32	An efficient SMS-based framework for public health surveillance	INGSM32
33	Design of accident detection and alert system for motor cycles	INGSM33
34	A wireless sensor network for RF characterisation of buildings	INGSM34
35	Experimental study and design of smart energy meter for the smart grid	INGSM35
36	Environment monitoring and device control using ARM based embedded controlled sensor network	INGSM36
37	Remote control system of smart appliances based on wireless sensor network	INGSM37
38	The Design of Transmission Line Icing Monitoring System Based on ZigBee	INGSM38
39	A New Personalized Agriculture Advisory System	INGSM39

S.No	Virtual Instrumentation General Instrumentation	CODE
1	Virtual Instrument Systems in Reality (VISIR) for Remote Wiring and Measurement of Electronic Circuits on Breadboard	INIVI01
2	A Temperature and Humidity Monitoring System Based on LabVIEW	INIVI02
3	Wind turbine instrumentation system using LabVIEW	INIVI03
4	Visual programming of an interactive smart home application using LabVIEW	INIVI04
5	Automatic weed detection system and smart herbicide sprayer robot for corn fields	INIVI05
6	Determination of the torque-speed characteristic of induction motor in electric machinery education	INIVI06



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7	Sensorized Glove for Measuring Hand Finger Flexion for Rehabilitation Purposes	INIVI07
8	Virtual instrumentation in corrosion measurements	INIVI08
9	Design of controlling the smart meter to equalize the power and demand based on virtual instrumentation	INIVI09
10	Automated efficiency measurement of three phase induction motor using LabVIEW	INIVI10
11	Mobile virtual laboratory for renewable energy	INIVI11
12	Suitability of SCADA for development of remote laboratories	INIVI12
13	Vision-based sign language translation device using mobile phones	INIVI13
14	Advanced instrumentation for extreme environments	INIVI14
15	Management of Mechanical Vibration and Temperature in Small Wind Turbines Using Zigbee Wireless Network	INIVI15
16	Capacitive Sensors Matrix for Interface Pressure Measurement in Clinical, Ergonomic and Automotive Environments	INIVI16
17	A Multi-Sensor Energy Theft Detection Framework for Advanced Metering Infrastructures	INIVI17
18	Online Temperature Monitoring, Fault Detection, and a Novel Heat Run Test of a Water-Cooled Rotor of a Hydrogenerator	INIVI18
19	Plug-and-Play Control—Modifying Control Systems Online	INIVI19
20	A Batteryless RFID Remote Control System	INIVI20
21	Remote-Control System of High Efficiency and Intelligent Street Lighting Using a ZigBee Network of Devices and Sensors	INIVI21
22	An Integrated Design Framework of Fault-Tolerant Wireless Networked Control Systems for Industrial Automatic Control Applications	INIVI22
23	Intelligent Control of Ventilation System for Energy-Efficient Buildings With CO2 Predictive Model	INIVI23
24	A distributed, graphical user interface based, computer control system for atomic physics experiments	INIVI24
25	Intelligence-Based Supervisory Control for Optimal Operation of a DCS-Controlled Grinding System	INIVI25
26	NetSimplex: Controller Fault Tolerance Architecture in Networked Control Systems	INIVI26
27	How can human communicate with robot by hand gesture?	INIVI27
28	Design and implementation of a Industrial Interactive System using Embedded Networking	INIVI28
29	Design and Implementation of a Internet Based Remote Virtual Instrumentation System (e Virtual Panels)	INIVI29



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30	Design of Virtual Instrument Based on MATLAB and LabVIEW	INIVI30
31	Platform for Testing and Measuring Based on Virtual Instrument	INIVI31
32	Internet based power quality monitoring system	INIVI32

S.No	PLC EPLC SCADA DCS HMI	CODE
1	Development of PLC-Based Software for Increasing the Dependability of Production Automation Systems	INPLC01
2	Automata-Based Railway Signaling and Interlocking System Design	INPLC02
3	On the Implementation of Industrial Automation Systems Based on PLC	INPLC03
4	Monitoring and control of a PLC based VFD fed three phase induction motor for powder compacting press machine	INPLC04
5	Water storage and distribution system for pharmaceuticals using PLC and SCADA	INPLC05
6	Ventilation Door's Automatic Control System Based on PLC and Rotary Encoder	INPLC06
7	Fuzzy control of robotic arm implemented in PLC	INPLC07
8	Water level control system using PLC and wireless sensors	INPLC08
9	Intelligent Control System of Transformer Cooling Based on DCS and Dual PLC	INPLC09
10	The implementation of PLC monitoring system based on OPC	INPLC10
11	Utilization of the PLC as a web server for remote monitoring of the technological process	INPLC11
12	Implementation of a PLC and OPC-based DC motor control laboratory	INPLC12
13	PLC controlled elevator system	INPLC13
14	The PLC-based Control System for Intelligent Garage	INPLC14
15	Development of an intelligent condition monitoring system for AC induction motors using PLC	INPLC15
16	Design of integrated supervision and control system for substation	INPLC16
17	Design and Implementation of the Dual-Axis Solar Tracking System	INPLC17
18	Intelligent Building Automation and Control Based on IndasIBMS	INPLC18
19	Communication and load balancing using SCADA model based integrated substation	INPLC19



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20	SCADA application of a water steam cycle of a thermal power plant	INPLC20
21	SCADA house intelligent management for energy efficiency analysis in domestic consumers	INPLC21
22	Microcontroller-Based Robotics and SCADA Experiments	INPLC22
23	Instrumentation for safe vehicular flow in intelligent traffic control systems using wireless networks	INPLC23
24	Wind generator tower vibration fault diagnosis and monitoring based on PCA	INPLC24
25	The design of a distributed control system based on CAN bus	INPLC25
26	Data acquisition and control using Arduino-Android platform: Smart plug	INPLC26
27	Design of monitoring and scheduling system for a large-scale reverse osmosis desalination plant	INPLC27
28	The design of a distributed control system based on CAN bus	INPLC28
29	SCADA And PLC Based Distribution And Substation Automation	INPLC29
30	Design and Implementation of a Industrial Interactive System using EPLC	INPLC30

S.No	Biometrics RFID Smart cards Voice Recognition	CODE
1	Multimodal biometric approach using fingerprint, face and enhanced iris features recognition	INBMT01
2	A Multi-modal Biometric Fusion Implementation for ABC Systems	INBMT02
3	Border crossing security and privacy in biometric passport using cryptographic authentication protocol	INBMT03
4	Soft Biometrics and Its Application to Security and Business	INBMT04
5	Biometrics to Prove Agreement at the Same Time and Place for Two Users	INBMT05
6	Improved id-based remote user authentication scheme using smart card	INBMT06
7	Simplified Secure Wireless Railway for Public Transport using fingerprint	INBMT07
8	Fingerprint-based user authentication scheme for home healthcare system	INBMT08
9	How to Build an Automated Fingerprint Identification System	INBMT09
10	Prototype of a fingerprint based licensing system for driving	INBMT10
11	Biometrics and Consumer Electronics: A Brave New World	INBMT11



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12	The modeling research of a fingerprint access control system	INBMT12
13	Intelligent Technologies for Self-Sustaining, RFID-Based, Rural e-Health Systems	INBMT13
14	A novel RFID tag positioning method based on mobile RFID reader and vehicle-mounted GNSS	INBMT14
15	RFID-enabled smart assembly workshop management system	INBMT15
16	Integration of RFID and WSN for supply chain intelligence system	INBMT16
17	RFID Tracking for Urban Transportation Using EPCGlobal-based WebServices	INBMT17
18	Design and development of navigation system by using RFID technology	INBMT18
19	RFID based vehicular networks for smart cities	INBMT19
20	RFID-based Location System for Forest Search and Rescue Missions	INBMT20
21	Bedside medication safety management system using a PDA and RFID tags	INBMT21
22	RFID-based Tracking System Preventing Trees Extinction and Deforestation	INBMT22
23	An internet based RFID library management system	INBMT23
24	Automated Retail Store Based on RFID	INBMT24
25	RFID based navigation system for unmanned material handling vehicles using FPGA	INBMT25
26	An Interactive RFID-based Bracelet for Airport Luggage Tracking System	INBMT26
27	RFID and ZigBee sensor network for ecology observation of seabirds	INBMT27
28	Design monitoring system kWh meter 3 phase using RFID system: PT. Multifabrindo Gemilang	INBMT28
29	RFID based navigation system for unmanned material handling vehicles using FPGA	INBMT29
30	Design of supervision and management system for ownerless manhole covers based on RFID	INBMT30
31	Remote control of home lighting devices with RFID identification and current detection of outlets	INBMT31
32	RFID sensor network for workplace safety management	INBMT32
33	Application of Radio Frequency Identification for Museum Environment	INBMT33
34	Design of a secured e-voting system	INBMT34
35	Smart Home System Based on IOT Technologies	INBMT35



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36	Vehicle anti-theft tracking system based on Internet of things	INBMT36
37	A low cost smart shopping facilitator for visually impaired	INBMT37
38	The virtual guide for assisted tours using context aware system	INBMT38
39	Mobile Ticketing System for Automatic Fare Collection Model for Public Transport	INBMT39
40	Designing Android Applications Using Voice Controlled Commands: For Hands Free Interaction with Common Household Devices	INBMT40
41	Passenger BUS alert system for easy navigation of blind	INBMT41
42	PSoC based isolated speech recognition system	INBMT42
43	The Design and Implementation of a Smart e-Receptionist	INBMT43
44	A low cost outdoor assistive navigation system for blind people	INBMT44
45	Eye Control System Base on Ameliorated Hough Transform Algorithm	INBMT45

S.No	BIOMEDICAL	CODE
1	Hazardless Biomedical Sensing Data Transmission Using VLC	INBOM01
2	A Continuous Biomedical Signal Acquisition System Based on Compressed Sensing in Body Sensor Networks	INBOM02
3	A Smart Wearable Textile Array System for Biomedical Telemetry Applications	INBOM03
4	A Low-Frequency Versatile Wireless Power Transfer Technology for Biomedical Implants	INBOM04
5	Wireless Wearable Multisensory Suite and Real-Time Prediction of Obstructive Sleep Apnea Episodes	INBOM05
6	Wireless sensor networks for biomedical applications	INBOM06
7	Biomedical sensor network for cardiovascular fitness and activity monitoring	INBOM07
8	Sensing Devices and Sensor Signal Processing for Remote Monitoring of Vital Signs in CHF Patients	INBOM08
9	Design of wide band OOK transmitter for biomedical applications	INBOM09
10	A Pervasive Health System Integrating Patient Monitoring, Status Logging, and Social Sharing	INBOM10
11	The Effect of Step-Synchronized Vibration on Patients With Parkinson's Disease	INBOM11
12	On-Shoe Wearable Sensors for Gait and Turning Assessment of Patients With Parkinson's Disease	INBOM12



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13	Personal Medical Monitoring System	INBOM13
14	Wireless wrist-wearable wake/sleep identification device for closed-loop deep brain stimulation	INBOM14
15	Position Recognition to Support Bedsores Prevention	INBOM15
16	Design and Development of a Sensorized Wireless Toy for Measuring Infants' Manual Actions	INBOM16
17	Personalized Electronic Health Record System for Monitoring Patients with Chronic Disease	INBOM17
18	Monitoring of bedridden patients: Development of a fall detection tool	INBOM18
19	Diffuse IR-optical wireless system demonstration for mobile patient monitoring in hospitals	INBOM19
20	Wireless remote patient monitoring in older adults	INBOM20
21	Real time biomedical signal transmission of mixed ECG Signal and patient information using visible light communication	INBOM21
22	Medicament dispensation system with patient supervision	INBOM22
23	Ubiquitous patient monitoring and smart alert generation in an intensive care unit	INBOM23
24	Emergency communication interface design using wearable data gloves for weary patients	INBOM24
25	Galvanic Coupling Transmission in Intrabody Communication: A Finite Element Approach	INBOM25
26	Body area sensor network for evaluating fitness exercise	INBOM26
27	A Survey on Intrabody Communications for Body Area Network Applications	INBOM27
28	FPGA based reconfigurable body area network using Nios II and uClinux	INBOM28
29	Real life applicable fall detection system based on wireless body area network	INBOM29
30	The smartphone accessory heart rate monitor	INBOM30
31	Heart rate variability detector based on embedded system	INBOM31
32	Wireless patch sensor for remote monitoring of heart rate, respiration, activity, and falls	INBOM32
33	Wegoto: A Smartphone-based approach to assess and improve accessibility for wheelchair users	INBOM33
34	Toward gesture controlled wheelchair: A proof of concept study	INBOM34
35	A motion control method of intelligent wheelchair based on hand gesture recognition	INBOM35
36	Wheelchair obstacle avoidance based on fuzzy controller and ultrasonic sensors	INBOM36



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37	Surgery from a distance—Application of intelligent control for telemedicine	INBOM37
38	Design of electronic blood pressure monitoring system based on mobile telemedicine system	INBOM38
39	Improving the quality of life of dependent and disabled people through home automation and tele-assistance	INBOM39
40	One step towards an automatic aging people fall detection service	INBOM40
41	A wireless electrocardiogram detection for personal health monitoring	INBOM41
42	Design and fabrication of a miniaturized ECG system with Bluetooth connectivity	INBOM42
43	Capacitive Sensors Matrix for Interface Pressure Measurement in Clinical, Ergonomic and Automotive Environments	INBOM43
44	Wearable biopotential measurement using the TI ADS1198 analog front-end and textile electrodes	INBOM44
45	A pressure distribution measurement system for supporting areas of wheelchair users	INBOM45
46	Design and Development of a Monitoring System for the Interface Pressure Measurement of Seated People	INBOM46
47	Biomedical Telemetry In Military	INBOM47
48	Wireless Fetal Heart Beat Monitoring System	INBOM48

S.No	Robotics	CODE
1	Designing and Implementing a Human–Robot Team for Social Interactions	INROB01
2	Human-Walking-Intention-Based Motion Control of an Omnidirectional-Type Cane Robot	INROB02
3	A Compact and Compliant External Pipe-Crawling Robot	INROB03
4	A Robot that Approaches Pedestrians	INROB04
5	Active and Passive Control of Walk-Assist Robot for Outdoor Guidance	INROB05
6	Environmental Monitoring Using Autonomous Aquatic Robots: Sampling Algorithms and Experiments	INROB06
7	Autonomous network repairing of a home security system using modular self-reconfigurable robots	INROB07
8	A socially assistive robot for the elderly and cognitively impaired	INROB08
9	Localization and navigation of a mobile robot in an office-like environment	INROB09
10	Tracking visitors with sensor poles for robot's museum guide tour	INROB10



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11	using assistive robotics to empower people with disabilities	INROB11
12	An autonomous ground robot for outdoor exploration	INROB12
13	Driftless 3-D Attitude Determination and Positioning of Mobile Robots By Integration of IMU With Two RTK GPSs	INROB13
14	Sensor based autonomous color line follower robot with obstacle avoidance	INROB14
15	Smart rope and vision based guide-dog robot system for the visually impaired self-walking in urban system	INROB15
16	Design of cell phone operated robot using DTMF for object research	INROB16
17	Tele-Operation of Robot Using Gestures	INROB17
18	A proximity/contact-force sensor for Human Safety in industrial robot environment	INROB18
19	Control of an industrial robot using Ethernet Application to a V+ running controller	INROB19
20	Distance controlled rescue and security mobile robot	INROB20
21	GPRS-based remote sensing and teleoperation of a mobile robot	INROB21
22	Attendant robot for elderly service using sensor network system	INROB22
23	Gesture-based robot control with variable autonomy from the JPL BioSleeve	INROB23
24	Development of an indoor patrol robot based on ultrasonic and vision data fusion	INROB24
25	Agricultural Robotics: Unmanned Robotic Service Units in Agricultural Tasks	INROB25
26	Automatic weed detection system and smart herbicide sprayer robot for corn fields	INROB26
27	Development and application of electronic nose for agricultural robot	INROB27
28	Design and development of digital PID controller for DC motor drive system using embedded platform for mobile robot	INROB28
29	RFID-based Location System for Forest Search and Rescue Missions	INROB29
30	Distance controlled rescue and security mobile robot	INROB30
31	Kinect-based Powered Wheelchair Control System	INROB31
32	Autonomous line-follower with fuzzy control	INROB32
33	Design and implementation of fuzzy logic based autonomous car for navigation in unknown environments	INROB33
34	Design and development of remote-operated multi-direction Unmanned Ground Vehicle (UGV)	INROB34



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35	Design and implementation of robotic system to transport disabled people	INROB35
36	Online control of remote operated agricultural Robot using fuzzy controller and virtual instrumentation	INROB36
37	Warfield Communications Jammer Robot	INROB37
38	Development of a robotic-arm controller by using hand gesture recognition	INROB38
39	A Real-Time Path Tracking Approach for a Wheeled Mobile Robot	INROB39
40	Priority Scheduling in an Autonomous Material Handling System for Industries	INROB40
41	Development of robotic sewerage blockage detector controlled by embedded systems	INROB41
42	Implementation of a Robotic Self Navigating Weapon System for Defense Applications	INROB42
43	Virtual Blue Printing Robot for Indoor Surveillance in Combating Urban Terrorism	INROB43

S.No	SMART Sensors MEMS Transducers	CODE
1	A Hybrid Sensor System for Indoor Air Quality Monitoring	INSMT01
2	A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring	INSMT02
3	Information-Driven Sensor Selection for Energy-Efficient Human Motion Tracking	INSMT03
4	An arrayed MEMS accelerometer with a wide range of detection	INSMT04
5	Investigating inertial measurements using MEMS devices in trainborne automatic track condition monitoring applications	INSMT05
6	MEMS for automotive and consumer electronics	INSMT06
7	A MEMS integrated navigation system based on DSP and FPGA	INSMT07
8	Design of Mems Gyroscope to detect and monitor Parkinson's disease	INSMT08
9	Design, development and testing of MEMS based seismometer for space application	INSMT09
10	Way-finding Electronic Bracelet for visually impaired people	INSMT10
11	A smarter toll gate based on Web of Things	INSMT11
12	Proposed framework for underwater sensor cloud for environmental monitoring	INSMT12
13	Airfield Lamp Monitoring & Control Systems	INSMT13
14	Optimization of standalone street light system with consideration of lighting control	INSMT14



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15	A motion control method of intelligent wheelchair based on hand gesture recognition	INSMT15
16	Development of microcontroller based ambulatory instrument to detect drowsiness	INSMT16
17	Angular measurement using MEMS digital gyroscope with PIC and LabVIEW interface for space applications	INSMT17
18	Design and implementation of a renewable energy monitoring system	INSMT18
19	Two Dimensional IR bitmap generation system using Pyro-electric Transducers	INSMT19
20	Control system based on Gesture recognition using 3D MEMS Accelerometers	INSMT20
21	Automation Of Bearing Monitoring And Lubrication System For Paper/Steel Industries Using VI	INSMT21
22	Design of Virtual Instrumentation Network for Graphical Signal Transfer in Hospitals for Noise rejection using Digital Filters	INSMT22

S.No	VLSI FPGA CPLD VHDL Verilog	CODE
1	Precision Control of Modular Robot Manipulators: The VDC Approach With Embedded FPGA	INVLS01
2	FPGA-Based Predictive Sliding Mode Controller of a Three-Phase Inverter	INVLS02
3	An Improved FPGA Implementation of Direct Torque Control for Induction Machines	INVLS03
4	CW and Pulse–Doppler Radar Processing Based onFPGA for Human Sensing Applications	INVLS04
5	Simple Digital Pulse Width Modulator Under 100 ps Resolution Using General-Purpose FPGAs	INVLS05
6	Architecture Exploration for a High-Performance and Low-Power Wireless Vibration Analyzer	INVLS06
7	Embedding Synchronized Measurement Technology for Smart Grid Development	INVLS07
8	Control Strategy for Power Flow Management in a PV System Supplying DC Loads	INVLS08
9	A novel FPGA educational paradigm using the next generation programming languages case of an embedded FPGA system course	INVLS09
10	Fast FPGA-based fault injection tool for embedded processors	INVLS10
11	From gates to FPGA: Learning digital design with Deeds	INVLS11
12	An FPGA co-processor for adaptive lane departure warning system	INVLS12
13	FPGA Based Elevator Controller with Improved Reliability	INVLS13



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14	An FPGA based implementation of a flexible digital PID controller for a motion control system	INVLS14
15	FPGA based control for real time systems	INVLS15
16	Internet-controlled dynamic reconfiguration forFPGA-based embedded systems	INVLS16
17	FPGA based 2-stage power conditioning system for PV power generation	INVLS17
18	A MEMS integrated navigation system based on DSP and FPGA	INVLS18
19	Fault tolerant CAN bus control system implemented into FPGA	INVLS19
20	Implementation of I2C master bus controller onFPGA	INVLS20
21	Micropositioning mechatronics system based onFPGA architecture	INVLS21
22	Design and implementation of a secure RFID system on FPGA	INVLS22
23	Real-time bluetooth communication between anFPGA based embedded system and an Android phone	INVLS23
24	RFID based navigation system for unmanned material handling vehicles using FPGA	INVLS24
25	Development of Frequency Variable Inverter Based on SOPC and Nios II	INVLS25
26	A Hardware Approach for Solving the Robot Localization Problem Using a Sequential EKF	INVLS26
27	Embedded Motion Controller Design Based on RTEX Network	INVLS27
28	Creating a programming language for the AL5 type robotic arms	INVLS28
29	A novel digital controller for microstepping stepper motor drive using FPGA for Solar Array Drive Assembly in satellites-A comparison With alternative schemes	INVLS29
30	A new high-efficiency stepper motor driver for old technology stepper motors	INVLS30
31	Design and implementation of fuzzy-logic based obstacle-avoidance and target-reaching algorithms on NI's embedded-FPGA robotic platform	INVLS31
32	Hardware amount evaluation of the improved WEP on an FPGA	INVLS32
33	Using remote update controller of FPGA's as built-in self test for embedded systems	INVLS33
34	Using FPGA for real time power monitoring in a NIALM system	INVLS34
35	SENTIOF: An FPGA based high-performance and low-power wireless embedded platform	INVLS35



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S.No	MATLAB DIP	CODE
1	Analysis of transformer oil by using MATLAB (Image Processing tool)	INDIP01
2	Analysis of rice granules using image processing and neural network	INDIP02
3	Novel image processing techniques for early detection of breast cancer, mat lab and lab view implementation	INDIP03
4	Cost effective smart remote controller based on invisible IR-LED using image processing	INDIP04
5	Automatic inspection of outdoor insulators using image processing and intelligent techniques	INDIP05
6	Automatic system for determination of blood types using image processing techniques	INDIP06
7	Non-destructive Quality Analysis of Kamod Oryza Sativa SSP Indica (Indian Rice) Using Machine Learning Technique	INDIP07
8	Development of a system for monitoring and tracking of physiotherapeutic movements in patients with neurological diseases	INDIP08
9	Automatic Malaria Diagnosis system	INDIP09
10	A novel approach of assisting the visually impaired to navigate path and avoiding obstacle-collisions	INDIP10
11	Counting objects in an image by marker controlled watershed segmentation and thresholding	INDIP11
12	Localization of License Plate Number Using Dynamic Image Processing Techniques And Genetic Algorithms	INDIP12
13	LabVIEW implementation of an elasticity measurement technique	INDIP13
14	Innovative algorithms for vision defect identification system	INDIP14
15	Design of Automobile License Plate Recognition System Based on MATLAB and Fuzzy PID	INDIP15
16	Customized architecture for implementing configurable FFT on FPGA	INDIP16
17	A Median Image Filtering Algorithm Based on Statistical Histogram	INDIP17
18	Tracking and counting vehicles in traffic video sequences using particle filtering	INDIP18
19	Detection of abnormalities in retinal images	INDIP19
20	Retinal Microaneurysm Detection Through Local Rotating Cross-Section Profile Analysis	INDIP20
21	Vision-based sign language translation device	INDIP21
22	Signature matching with automated cheque system	INDIP22



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23	Novel segmentation algorithm for hand gesture recognition	INDIP23
24	The monitoring system of smoke images based on embedded system and GPRS	INDIP24
25	Consumer electronics-based intelligent alert system for unattended elderly residents	INDIP25
26	Driver fatigue detection using machine vision approach	INDIP26
27	The Use of Automotive Radars in Video-Based Overtaking Assistance Applications	INDIP27
28	A Novel Vehicle Detection Method With High Resolution Highway Aerial Image	INDIP28
29	Design of an intelligent electric vehicle for blind	INDIP29
30	Enhancing Light Blob Detection for Intelligent Headlight Control Using Lane Detection	INDIP30
31	Intelligent Parking System for Car Parking Guidance and Damage Notification	INDIP31
32	Sensor Fusion-Based Vacant Parking Slot Detection and Tracking	INDIP32
33	Police Eyes: Real world automated detection of traffic violations	INDIP33
34	Stopped Object Detection by Learning Foreground Model in Videos	INDIP34
35	Traffic Violation Detection Using Multiple Trajectories Evaluation of Vehicles	INDIP35
36	EasiSee: Real-Time Vehicle Classification and Counting via Low-Cost Collaborative Sensing	INDIP36
37	Adaptive encryption using pseudo-noise sequences for medical images	INDIP37
38	Real time edge detected advanced image acquisition system using RGB analysis	INDIP38
39	Image authentication and restoration by multiple watermarking techniques with advance encryption standard in digital photography	INDIP39
40	Indoor security system design and implementation using depth information	INDIP40
41	Securing Visual Cryptographic shares using Public Key Encryption	INDIP41
42	An Encryption and Decryption Algorithm for Image Based on DNA	INDIP42
43	Depth-based hand gesture recognition for home appliance control	INDIP43
44	Novel segmentation algorithm for hand gesture recognition	INDIP44
45	Gesture and Hand Activity Based Emergency Response Communication by Patients, Elderly and Disabled While Using Data Gloves	INDIP45
46	Brain Tumor Classification using Discrete Cosine Transform and Probabilistic Neural Network	INDIP46



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47	Lung tumor detection and diagnosis in CT scan images	INDIP47
48	Detection of lung tumor in CE CT images by using weighted Support Vector Machines	INDIP48
49	Design and implementation of a unique blood-vessel detection algorithm towards early diagnosis of diabetic retinopathy	INDIP49
50	Directional Local Contrast Based Blood Vessel Detection in Retinal Images	INDIP50
51	A separable reversible data hiding in encrypted image with improved performance	INDIP51
52	How can human communicate with robot by hand gesture?	INDIP52
53	Human Abnormal Action Identification Method in Different Scenarios	INDIP53
54	Hand gesture based interface for aiding visually impaired using real time camera	INDIP54
55	Bomb detection in public places using real time image processing	INDIP55
56	Missing Objects and Theft detection in static environment using CCTV camera image	INDIP56
57	Intelligent Traffic Light control and vehicle identification using traffic cameras without ground sensors	INDIP57
58	Energy saver with localised occupancy detection based on image processing	INDIP58
59	PCB defect identification using DIP	INDIP59
60	Umpire hand signal identification for automatic run scoring using dynamic video processing	INDIP60
61	Object sorting in manufacturing industries using continuous image acquisition	INDIP61
62	Disk Space Optimization during video recording in continuous surveillance systems	INDIP62

S.No	MATLAB DSP Communication	CODE
1	End-to-End Secure Multi-Hop Communication with Untrusted Relays	INDSP01
2	A Key Management Scheme for Secure Communications of Advanced Metering Infrastructure in Smart Grid	INDSP02
3	RISE: A Reliable and Secure scheme for wireless Machine to Machine communications	INDSP03
4	A Lightweight Multicast Authentication Mechanism for Small Scale IoT Applications	INDSP04
5	Practical Physical Layer Security Schemes for MIMO-OFDM Systems Using Precoding Matrix Indices	INDSP05
6	A Survey of Group Key Distribution Schemes With Self-Healing Property	INDSP06



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7	A Physical Layer Secured Key Distribution Technique for IEEE 802.11g Wireless Networks	INDSP07
8	A Motion Monitor Using Hetero-Core Optical Fiber Sensors Sewed in Sportswear to Trace Trunk Motion	INDSP08
9	Simultaneous Measurement of Temperature and Strain Using a Single Bragg Grating in a Few-Mode Polymer Optical Fiber	INDSP09
10	A Dual-Parameter Optical Fiber Sensor for Concurrent Strain and Temperature Measurement: Design, Fabrication, Packaging, and Calibration	INDSP10
11	The transmitter for indoor Free Space Optic networks	INDSP11
12	Experimental study of the performance for BPSK subcarrier intensity modulation free space optics communications in a laboratory controlled turbulence channel	INDSP12
13	Analysis of free space optical link in ahmedabad weather conditions	INDSP13
14	Modelling of OFDM-ODSB-FSO Transmission System under Different Weather Conditions	INDSP14
15	LIGHTNETs: Smart LIGHTing and Mobile Optical Wireless NETworks	INDSP15
16	Broadband Free Space Optical urban links for next generation infrastructures and services	INDSP16
17	Free Space Optical Communication with OOK and BPSK modulation under different turbulent condition	INDSP17
18	Modelling of free space optical link for ground-to-train communications using a Gaussian source	INDSP18
19	Advanced modulation formats for free-space laser communication	INDSP19
20	Distributed CSMA Algorithms for Link Scheduling in Multihop MIMO Networks Under SINR Model	INDSP20
21	Improving the DMT Performance for MIMO Communication With Linear Receivers	INDSP21
22	Characterization of Performance of a Mobile MIMO Antenna in Free Space	INDSP22
23	A channel state information feedback method for massive MIMO-OFDM	INDSP23
24	MIMO Radar Transmit Beampattern Design With Ripple and Transition Band Control	INDSP24
25	Full-dimension MIMO (FD-MIMO) for next generation cellular technology	INDSP25
26	Small Director Array for Low-Profile Smart Antennas Achieving Higher Gain	INDSP26
27	A Smart Wearable Textile Array System for Biomedical Telemetry Applications	INDSP27
28	On Spatial Domain Cognitive Radio Using Single-Radio Parasitic Antenna Arrays	INDSP28



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29	Compensation of Time-Division Multiplexing Distortion in Switched Antenna Arrays With a Single RF Front-End and Digitizer	INDSP29
30	Moving cells: a promising solution to boost performance for vehicular users	INDSP30

S.No	MATLAB Fuzzy Neural Networks	CODE
1	Level Fuzzy Control of Three-Tank System	INFZN01
2	Induction motor stator fault detection via fuzzy logic	INFZN02
3	Smart wheelchair using fuzzy inference system	INFZN03
4	Discrete-Time Fuzzy Speed Regulator Design for PM Synchronous Motor	INFZN04
5	Hybrid Fuzzy Logic Controller for optimized autonomous parking	INFZN05
6	Fuzzy Fault-Tolerant Control of Wind-Diesel Hybrid Systems Subject to Sensor Faults	INFZN06
7	Engine Health Monitoring for engine fleets using fuzzy radviz	INFZN07
8	Adaptive rule-base fuzzy power system stabilizer for a multi-machine system	INFZN08
9	DSP-Based Implementation of Fuzzy Output Tracking Control for a Boost Converter	INFZN09
10	Path planning based on fuzzy logic algorithm for mobile robots in static environment	INFZN10
11	Design and simulation of a fuzzy controller for a busy intersection	INFZN11
12	Design of Fuzzy logic based level controller for surge tank system	INFZN12
13	Application of Fuzzy Points in MSIFT for Threat Objects Detection	INFZN13
14	The speed control of brushless DC motor based on fuzzy genetic algorithm	INFZN14
15	Edge detection technique by fuzzy logic and Cellular Learning Automata using fuzzy image processing	INFZN15
16	Background subtraction and human detection in outdoor videos using fuzzy logic	INFZN16
17	Load shedding strategy application using fuzzy logic	INFZN17
18	Self-tuning fuzzy PID controller	INFZN18
19	Pipeline Risk Assessment using a Fuzzy Systems Network	INFZN19



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S.No	General Popular Interdisciplinary	CODE
1	Embedded solar tracking instrumentation system	INOTH01
2	An energy efficient microcontroller based digital solar weighing machine	INOTH02
3	Design and implementation of microcontroller based temperature measurement and control system using powerline communication	INOTH03
4	Design and implementation of dual axis solar tracker based on solar maps	INOTH04
5	Prototype of an underground multi-storied automated car parking system	INOTH05
6	Accident detection and reporting system using GPS, GPRS and GSM technology	INOTH06
7	Building an electric model vehicle with obstacle avoidance system	INOTH07
8	Border Crossing Prevention and Alert System for Fishermen	INOTH08
9	Predicting arrival times of buses using real-time GPS measurements	INOTH09
10	Optical flow based obstacle avoidance for the visually impaired	INOTH10
11	Ultrasonic spectacles and waist-belt for visually impaired and blind person	INOTH11
12	Bus Identification System for Visually Impaired Person	INOTH12
13	Wireless black box using MEMS accelerometer and GPS tracking for accidental monitoring of vehicles	INOTH13
14	Robust railway crack detection scheme (RRCDS) using LED-LDR assembly	INOTH14
15	Automatic Ambulance Rescue System	INOTH15
16	Field variables monitoring in real time (GPS, soil moisture, temperature) with precision farming applications	INOTH16
17	Hand Gesture Recognition Interface for Visually Impaired and Blind People	INOTH17
18	Application of RFID and GPS Technology in Transportation Vehicles Monitoring System for Dangerous Goods	INOTH18
19	Unmanned monitoring system of rivers and lakes based on WSN	INOTH19
20	Centralized heart rate monitoring telemetry system using ZigBee wireless sensor network	INOTH20
21	Real-time Automation of agricultural environment for social modernization of Indian agricultural system	INOTH21
22	Portable Navigation Aid for Fishermen	INOTH22



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23	TV Remote Finder	INOTH23
24	Speed Dictators For Forced Speed Limiting At Critical Places Using Low Cost RF Transceivers	INOTH24
25	A wireless surveillance and safety system for mine workers based on Zigbee	INOTH25
26	Wireless Multipoint Circular And Emergency Message Transfer System	INOTH26
27	Parking vehicle positioning system based on ZigBee	INOTH27
28	Design and Implementation of Wireless Electricity Billing	INOTH28
29	Automatic Street Light Control Using Zigbee	INOTH29
30	Design of remote intelligent home system based on ZigBee and GPRS technology	INOTH30
31	Virtual Guide for Assisted Tours using Context Aware Systems	INOTH31
32	Design Of Smart Home Using GSM Network	INOTH32
33	Remote monitoring system of ECG and temperature signals using Bluetooth	INOTH33
34	Intelligent Traffic Light Control System	INOTH34
35	Smart Gadget For Personal Carry Ons	INOTH35
36	Human Abnormal Action Identification Method in Different Scenarios	INOTH36
37	Deep Sea Based Wireless Tsunami Alerting System	INOTH37
38	Design of intelligent home appliance control system based on ARM and ZigBee	INOTH38
39	Flood warning system for Railways using Ultrasonic Waves	INOTH39
40	Design of concealed alarm system based on GSM	INOTH40
41	Electricity billing using GSM based AMR for Domestic and Commercial Application	INOTH41
42	Establishing A GSM Communication For Automatic Irrigation System	INOTH42
43	Automation of residential electricity cut off using network based embedded controller	INOTH43
44	Automatic Covering System For Drying Materials In Agro Based Industries	INOTH44
45	Implementation of a home automation system through a central FPGA controller	INOTH45
46	Flood warning, Track Obstacle and Wild life monitoring system for Railways	INOTH46
47	Vehicle Collision Avoidance By Distance And Speed Combination Analysis	INOTH47



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48	Fully Automated Rationing Shop For Public Distribution Systems	INOTH48
49	Vibration Based Multi Level Automated Level Crossing System	INOTH49
50	Remote Monitoring Of Greenhouse Gas Emissions In Industries Using GSM	INOTH50
51	Cargo Container Conditions Logger Using Virtual Instrumentation - Labview	INOTH51
52	Laser Fencing And Birds Scaring System For Agricultural Fields	INOTH52
53	Establishing A Multi Application Noiseless Network For Smart City Design	INOTH53
54	Home appliances management system using Controller Area Network (CAN)	INOTH54
55	Design And Implementation Of Long Distance Bidirectional CAN Network For Smart City Design	INOTH55
56	Design and implement of meeting attendance system based on RFID	INOTH56
57	The TALOS Project -- Autonomous Robotic PatrolVehicles	INOTH57
58	Human motion based search and rescue robot in natural calamities	INOTH58
59	Speech recognition based wireless automation of home loads with fault identification for physically challenged	INOTH59
60	Live Human Detecting Robot For Earthquake Rescue Operation	INOTH60
61	Patient Monitoring Using GSM And Zigbee	INOTH61
62	The Signal Transmission Mechanism on the Surface of Human Body for Body Channel Communication	INOTH62
63	The research and design of intellectual parking system based on RFID	INOTH63
64	Voice Operated Versatile Control System for Institutions and Industries	INOTH64
65	Student attendance monitoring at the university using NFC	INOTH65
66	Automatic Fuel Station Using Smartcards	INOTH66
67	Biometric authentication in Smart Grid	INOTH67
68	Electronic voting machine — A review	INOTH68
69	An RFID based autonomous indoor tour guide robot	INOTH69
70	RFID Technology Applied to Monitor Vehicle in Highway	INOTH70
71	Prescription Drug Abuse Control System	INOTH71



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72	Intelligent Security System For Atms Using RFID Cards And GSM Technology	INOTH72
73	Voice Based Environment Control	INOTH73
74	Pre Paid Electricity Cards For Power Billing Using Gsm Technology	INOTH74
75	Flood warning system for Distribution substation systems	INOTH75
76	Substation Automation Using Bi-Directional Data Flow Through Power Lines Using Digital Protocol	INOTH76
77	Cumulative Power logger for Industries	INOTH77
78	Fuzzy Logic Based Embedded Power Manager For Large Halls/Auditoriums/ Seminar Halls	INOTH78
79	First Fault Identification And Announcing System	INOTH79
80	Automatic control of irrigation systems aiming at high energy efficiency in rice crops	INOTH80
81	Hand gesture based interface for aiding visually impaired	INOTH81