



Ingens

A Unit of [Ensemble Tech Pvt Ltd](#)

IEEE Projects in - Embedded Sys | VLSI | DSP | DIP | EIE | MATLAB | Electrical | Android

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(Behind Fathima Jewellers)

About Us :

We at Ingens Tech specialize in academic projects training, guidance and implementation. We offer project guidance and training for final year projects in departments like ECE, EEE, E&I and other associated departments. We have a impeccable track record over 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.

Contact Us :

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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
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



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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
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



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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
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 environment	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



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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
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