



**JP INFOTECH**

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

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**2015 - 2016 EEE IEEE FINAL YEAR Projects @ JP INFOTECH**

S.NO	Project Code	IEEE 2015 EEE Project Titles	Domain	Lang/Year
1	JPEEE1501	A Bidirectional LLC Resonant Converter With Automatic Forward and Backward Mode Transition	Power Electronics	2015
2	JPEEE1502	A BL-CSC Converter-Fed BLDC Motor Drive With Power Factor Correction	Power Electronics	2015
3	JPEEE1503	A Fast DC-Bus Voltage Controller for Bidirectional Single-Phase AC/DC Converters	Power Electronics	2015
4	JPEEE1504	A High Gain Input-Parallel Output-Series DC/DC Converter With Dual Coupled Inductors	Power Electronics	2015
5	JPEEE1505	A High Step-Up Converter with Voltage-Multiplier Modules for Sustainable Energy Applications	Power Electronics	2015
6	JPEEE1506	A High Step-Up DC to DC Converter Under Alternating Phase Shift Control for Fuel Cell Power System	Power Electronics	2015
7	JPEEE1507	A High-Efficiency MOSFET Transformerless Inverter for Non isolated Micro inverter Applications	Power Electronics	2015
8	JPEEE1508	A Multi-Input Bridgeless Resonant AC-DC Converter for Electromagnetic Energy Harvesting	Power Electronics	2015
9	JPEEE1509	A Novel Control Method for Transformerless H-Bridge Cascaded STATCOM With Star Configuration	Power System	2015
10	JPEEE1510	A Novel Drive Method for High-Speed Brushless DC Motor Operating in a Wide Range	Power Electronics	2015



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11	JPEEE1511	A Novel High Step-up DC/DC Converter Based on Integrating Coupled Inductor and Switched-Capacitor Techniques for Renewable Energy Applications	Power Electronics	2015
12	JPEEE1512	A Phase-Shifted-PWM D-STATCOM Using a Modular Multilevel Cascade Converter (SSBC)—Part I: Modeling, Analysis, and Design of Current Control	Power System	2015
13	JPEEE1513	A Quasi-Z-Source Direct Matrix Converter Feeding a Vector Controlled Induction Motor Drive	Power Electronics	2015
14	JPEEE1514	A Zero-Sequence Voltage Injection-Based Control Strategy for a Parallel Hybrid Modular Multilevel HVDC Converter System	Power System	2015
15	JPEEE1515	An Adaptive Power Oscillation Damping Controller by STATCOM With Energy Storage	Power System	2015
16	JPEEE1516	Analysis and Impacts of Implementing Droop Control in DFIG-Based Wind Turbines on Microgrid/Weak-Grid Stability	Power System	2015
17	JPEEE1517	Analysis of Dual-Carrier Modulator for Bidirectional Non inverting Buck–Boost Converter	Power Electronics	2015
18	JPEEE1518	Bidirectional PWM Converter Integrating Cell Voltage Equalizer Using Series-Resonant Voltage Multiplier for Series-Connected Energy Storage Cells	Power Electronics	2015
19	JPEEE1519	Bridgeless PFC-Modified SEPIC Rectifier With Extended Gain for Universal Input Voltage Applications	Power Electronics	2015
20	JPEEE1520	Derivation, Analysis, and Comparison of Nonisolated Single-Switch High Step-up Converters with Low Voltage Stress	Power Electronics	2015
21	JPEEE1521	Double-Switch Equalizer Using Parallel- or Series-Parallel-Resonant Inverter and Voltage Multiplier for Series-Connected Super capacitors	Power Electronics	2015
22	JPEEE1522	Full-bridge Reactive Power Compensator with Minimized Equipped	Power	2015



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		Capacitor and its Application to Static Var Compensator	System	
23	JPEEE1523	Input-Series-Output-Parallel-Connected Buck Rectifiers for High-Voltage Applications	Power Electronics	2015
24	JPEEE1524	Large-Signal Characterization of Power Inductors in EV Bidirectional DC-DC Converters Focused on Core Size Optimization	Power Electronics	2015
25	JPEEE1525	Minimization of the DC Component in Transformerless Three-Phase Grid-Connected Photovoltaic Inverters	Power System	2015
26	JPEEE1526	Modular Cascaded H-Bridge Multilevel PV Inverter with Distributed MPPT for Grid-Connected Applications	Power System	2015
27	JPEEE1527	Naturally Clamped Soft-Switching Current-Fed Three-Phase Bidirectional DC/DC Converter	Power Electronics	2015
28	JPEEE1528	Novel Modular Multiple-Input Bidirectional DC-DC Power Converter (MIPC) for HEV/FCV Application	Power Electronics	2015
29	JPEEE1529	PFC Cuk Converter-Fed BLDC Motor Drive	Power Electronics	2015
30	JPEEE1530	Predictive Voltage Control of Transformerless Dynamic Voltage Restorer	Power Electronics	2015
31	JPEEE1531	Reactive Power Management in Islanded Microgrid—Proportional Power Sharing in Hierarchical Droop Control	Power System	2015
32	JPEEE1532	Soft-Switching AC-Link Three-Phase AC-AC Buck-Boost Converter	Power Electronics	2015
33	JPEEE1533	The Delta Configured Modular Multilevel Converter	Power Electronics	2015
34	JPEEE1534	Transformerless Hybrid Power Filter Based on a Six-Switch Two-Leg Inverter for Improved Harmonic Compensation Performance	Power Electronics	2015



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35	JPEEE1535	Two-Switch Voltage Equalizer Using an LLC Resonant Inverter and Voltage Multiplier for Partially Shaded Series-Connected Photovoltaic Modules	Power Electronics	2015
36	JPEEE1536	Wide Damping Region for LCL-Type Grid-Connected Inverter with an Improved Capacitor-Current-Feedback Method	Power Electronics	2015

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