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PROJECT SUPPORTS & DELIVERABLES

- **PROJECT ABSTRACT**
- **IEEE PAPER**
- **PPT / REVIEW DETAILS**
- **PROJECT REPORT**
- **WORKING PROCEDURE/SCREEN SHOTS**
- **MATERIALS & BOOKS IN CD**
- **PROJECT CERTIFICATION**

**All available Project
Details in CD / DVD***

**REAL TIME WORKING
KIT / MODEL**

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- **A Low-Cost Digital Control Scheme for Brushless DC Motor Drives in Domestic Applications - 2009**
- **A Three-Level Full-Bridge Zero-Voltage Zero-Current Switching Converter With a Simplified Switching Scheme - 2009**
- **Battery-Utility Interface using Soft Switched AC Link Buck Boost Converter - 2009**
- **DC–AC Cascaded H-Bridge Multilevel Boost Inverter With No Inductors for Electric/Hybrid Electric Vehicle Applications - 2009**
- **Quasi-Z-Source Inverter for Photovoltaic Power Generation Systems - 2009**
- **ZVS Resonant DC-link Inverter using Soft Switching Boost Converter - 2009**
- **Single-Stage Soft-Switching Converter with Boost Type of Active Clamp for Wide Input Voltage Ranges – 2009**
- **An Interleaved Boost Converter with Zero-Voltage Transition – 2009**
- **Very-High-Frequency Resonant Boost Converters – 2009**
- **Design and Control for a Charge-Regulated Fly Back Switch-Mode Rectifier – 2009**
- **Single-Loop Current Sensor Less Control for Single-Phase Boost-Type SMR – 2009**
- **A Bridgeless PFC Boost Rectifier with Optimized Magnetic Utilization – 2009**
- **Optimum Design Consideration and Implementation of a Novel Synchronous Rectified Soft-Switched Phase-Shift Full-Bridge Converter for Low-Output-Voltage High-Output-Current Applications-2009**

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- A Practical Switching Loss Model for Buck Voltage Regulators – 2009
- Light-Load Efficiency Improvement for Buck Voltage Regulators – 2009
- Dual-Current Pump Module for Transient Improvement of Step-Down Dc–Dc Converters – 2009
- Current Self-Balance Mechanism in Multiphase Buck Converter – 2009
- A Novel Low-Loss Modulation Strategy For High-Power Bi-Directional Buck - Boost Converters – 2009
- A Compensation Technique for Smooth Transitions in a Non Inverting Buck–Boost Converter – 2009
- Improved Z-Source Inverter With Reduced Z-Source Capacitor Voltage Stress and Soft-Start Capability – 2009
- Design and Control for a Charge-Regulated Flybackswitch-Mode Rectifier – 2009
- Family Of Soft-Switching Pwm Converters with Current Sharing In Switches – 2009
- Lossless Inductor Current Sensing Method with Improved Frequency Response – 2009
- A New PWM Strategy to Reduce the Inverter Input Current Ripples – 2009

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Project Concepts &
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- **A Novel Zero Voltage Transition Synchronous Buck Converter for Portable Application – IEEE 2008**
- **Design of an Intelligent Bi-Directional Dc-Dc Converter with Half Bridge Topology – IEEE 2008**
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- **A Modified SEPIC Converter for High Power Factor Rectifier and Universal-Input Voltage Applications - IEEE 2009**
- **A Modified SEPIC Converter with Soft-Switching Feature for Power Factor Correction - IEEE 2009**
- **A Modular Single-Phase Power-Factor-Correction Scheme With a Harmonic Filtering Function- IEEE**
- **A new approach to improve power factor and reduce Harmonics in a three phase Diode Rectifiers that Apply Optimal current Injection - IEEE**
- **A Non-isolated Bidirectional ZVS-PWM Active Clamped DC–DC Converter - IEEE 2009**
- **A Novel Approach to Reduce Line Harmonic Current for a Three-phase Diode Rectifier-fed Electrolytic Capacitor-less Inverter - IEEE 2009**
- **A novel DC-AC Single Phase Resonant Inverter using soft switching boost converter - IEEE 2009**
- **A Novel Hybrid Operational Mode Wide Range Input ZVS Front-end DC-Dc Converter Aiming at Optimized Overall Performance - IEEE 2009**

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- **A Novel Reference Compensation Current Strategy for Three-phase Three-level Unity PF Rectifier - IEEE 2009**
- **A Novel Soft Switching Flyback Converter with Synchronous Rectification - IEEE 2009**
- **A novel three-phase PFC rectifier using a harmonic current injection method - IEEE 2009**
- **A Novel Unity Power Factor Input Stage for AC Drive Application**
- **A Novel Zero-Voltage-Switching Single-Stage High-Power-Factor Electronic Ballast - IEEE 2009**
- **A Novel ZVZCS LLC-Type Parallel Resonant Converter with A Separated Resonant Tank - IEEE 2009**
- **A Single-Stage Single-Phase Transformer-Less Doubly Grounded Grid-Connected PV Interface - IEEE 2009**
- **A Soft-Switching Synchronous Buck Converter for Zero Voltage Switching (ZVS) in Light and Full Load Conditions - IEEE 2008**
- **A Three-in-One Converter for Regular and Emergency Lighting applications - IEEE 2009**
- **A Three-Phase Reduced Switch High Power Factor Buck-Type Converter - IEEE 2008**
- **A Zero-Voltage-Switching Bidirectional DC–DC Converter With State Analysis and Soft-Switching-Oriented Design Consideration - IEEE 2009**

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- **Active-Clamp ZVS Converter with Step-Up Voltage Conversion Ratio - IEEE 2009**
- **An Efficient Common-Mode Hybrid EMI Filter Used in Switch-mode Power Supply - IEEE 2009**
- **An Interleaved Boost Converter With Zero-Voltage Transition - IEEE 2009**
- **An Interleaved Twin-Buck Converter with Zero-Voltage-Transition - IEEE 2009**
- **Analysis and design of a current-fed zero-voltage-switching and zero-current-switching CL-resonant push-pull dc-dc converter - IEEE 2009**
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- **Analysis and Design of Three-Phase Rectifier with Near-Sinusoidal Input Currents - IEEE 2009**
- **Analysis and implementation of Z source based Single Stage Solar Cell Converter for power supply applications - IEEE 2009**
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- Analysis and implementation of positive output super lift converter techniques - IEEE 2008
- Analysis and implementation of Single-Switch Quasi-Resonant Converter - IEEE 2009

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- Analysis and Implementation of Switched-Capacitor/Switched-Inductor Structures for Getting Transformer less Hybrid DC-DC PWM Converters - IEEE 2008
- Analysis and implementation of Switched-capacitorized DC/DC Converters - IEEE 2009
- Analysis and implementation of Vienna Rectifiers in Distribution Power System - IEEE 2009
- Analysis of Super-Lift Luo-Converters with Capacitor Voltage drop - IEEE 2009
- Application of Random PWM Techniques for Reducing the Electromagnetic Interference of Vienna Rectifiers in Distribution Power System - IEEE 2009
- Bridgeless SEPIC Rectifier With Unity Power Factor and Reduced conduction Losses - IEEE 2009
- Comparison of Control Methods for High-Voltage High-Power Three-Level Half-Bridge DC/DC Converters - IEEE 2009
- Compensation Loop Design of A Photovoltaic System Based on Constant Voltage MPPT - IEEE 2009

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- **Design and Comparison of Two Front-end DC/DC Converters: LLC Resonant Converter and Soft-switched Phase-shifted Full-bridge Converter with Primary-side Energy Storage Inductor - IEEE 2009**
- **Design and Control for Grid-connected Photovoltaic Inverter with LCL Filter - IEEE 2009**
- **Design and control methodology of Shunt Active Power Filter for Harmonic Mitigation - IEEE**
- **Design of High Voltage, High Power and High Frequency Transformer in LCC Resonant Converter - IEEE 2009**
- **Design of LCL-T Resonant Converter Including the Effect of Transformer Winding Capacitance**
- **Design Oriented Analysis of Modern Active Droop Controlled Power Supplies - IEEE 2009**
- **Design, study, modeling and control of a new single-phase high power factor rectifier based on the single-ended primary inductance converter and the Sheppard–Taylor topology - IEEE 2009**
- **Designs and Analysis of Zero-Voltage-Switching DC–DC Converters with Synchronous Rectifiers - IEEE 2008**
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- **High step-up resonant push–pull converter with high efficiency - IEEE 2009**

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- Improved Z-Source Inverter With Reduced Z-Source Capacitor Voltage Stress and Soft-Start Capability - IEEE 2009
- Improving mains current quality for three phase three-switch buck-type PWM rectifiers - IEEE 2009
- LCC Resonant Converter Operating under Discontinuous Resonant Current Mode in High Voltage, High Power and High Frequency Applications - IEEE 2009
- Light-Load Efficiency Improvement for Buck Voltage Regulators - IEEE 2009
- Loss Analysis in Soft Switching Boost Converter using a single switch - IEEE 2009
- Modeling and design of a neutral point regulator for a three level diode clamped rectifier - IEEE2009
- Modeling the PWM Zeta Converter in Discontinuous Conduction Mode - IEEE 2009
- Novel Half-Bridge Inductive DC–DC Isolated Converters for Fuel Cell Applications - IEEE 2009
- Passive and Active Hybrid Integrated EMI Filters - IEEE 2009
- Photovoltaic-Battery-Powered DC Bus System for Common Portable Electronic Devices - IEEE 2009

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- **Power Factor Correction and Active Filtering Technology Application for Industrial Power Systems with Non-linear Loads - IEEE**
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- **Present States and Development of the Single-stage Uninterruptible AC-DC Converters - IEEE 2009**
- **Quasi-Z-Source Inverter for Photovoltaic Power Generation Systems - IEEE 2009**
- **Sensor less Control of SEPIC and Ćuk Converters for DC Motors using solar Panels - IEEE 2009**
- **Single-Phase Matrix Converter Operating as Buck and Boost Rectifier - IEEE 2009**
- **Single-Phase Z-Source Buck-Boost Matrix Converter - IEEE 2009**
- **Single-Stage Fly back Converter for Constant Current Output LED Driver with Power Factor Correction - IEEE 2009**
- **Single-Stage Offline SEPIC Converter with Power Factor Correction to Drive High Brightness LEDs - IEEE 2009**
- **Single-Stage Single-Switch Switched-Capacitor Buck/Buck-Boost-Type Converter - IEEE 2009**
- **Single-Stage Soft-Switching Converter With Boost Type of Active Clamp for Wide Input Voltage Ranges - IEEE 2009**
- **Soft-Switching Capability Analysis of a Dual Active Bridge Dc-Dc Converter - IEEE 2009**
- **Stability analysis of two-cell buck converter driven DC motor with a Discrete-Time closed Loop - IEEE 2009**

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- **System harmonic compensation using PWM voltage source Inverter based Shunt Active Power Filters - IEEE**
- **The Electronic Ballast Using Class-E Rectifier with Tapped Inductor for Power Factor Correction - IEEE 2008**
- **Three-Phase Rectifier With Active Current Injection and High Efficiency - IEEE 2009**
- **Three-Switch Active-Clamp Forward Converter with Low Switch Voltage Stress - IEEE 2009**
- **Topology and analysis of Voltage-lift-type Cuk converters - IEEE 2009**
- **Transformer less DC–DC Converters With High Step-Up Voltage Gain used for photovoltaic interface Application - IEEE 2009**
- **Unity-Power-Factor Operation of AC–DC Soft Switched Converter Based On Boost Active Clamp Topology in Modular Approach - IEEE 2008**
- **Zero voltage switching DC link single phase Pulse width modulated Voltage source Inverter - IEEE 2007**
- **Zero-Current-Transition Bridgeless PFC Without Extra Voltage and Current Stress - IEEE 2009**
- **ZVS Resonant DC-link Inverter using Soft Switching Boost Converter - IEEE 2009**
- **Embedded Controlled Z-Source Inverter Induction Motor Drive – IEEE 2008**
- **Improving Speed Control of Inductions through Fuzzy-SMC-PI Control – IEEE 2008**
- **Multi-Input Fuzzy Logic Controller for Brush less DC Motor Drives – IEEE 2008**

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- **Soft Switched AC-Link AC/AC and AC/DC Buck-Boost Converter – IEEE 2007**
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- **Design, Implementation and Real-Time Digital Control of a Cart-Mounted Inverted Pendulum using Atmel AVR Microcontroller – IEEE 2007**
- **GSM / CDMA / DCS Tri Band Jammer**
- **A Novel Soft-Switching Single-Phase AC-DC-AC Converter using New ZVS-PWM Strategy – IEEE 2007**
- **Fuzzy Logic Control of Induction Motor with Input Output Feedback Linearization – IEEE 2007**
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- **Adaptive Neuro-Fuzzy Controller of switched Reluctance Motor – IEEE 2007**
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- **An Integrated Inverter for a Single-Phase Single-Stage Grid-Connected PV System based on Z-Source – IEEE 2007**
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- **A Review of Multilevel Power Converters – IEEE 2006**
- **Direct ZVS Start-Up of a Current-Fed Resonant Inverter – IEEE 2006**
- **BLDC Motor Controlled using Resonant Pole Inverter with Variable Pulse Width Method – IEEE 2006**
- **Applying Modified One-Comparator Counter based PWM Control Strategy to Fly back Converter – IEEE 06**
- **Power-Efficient Pulse Width Modulation DC/DC Converters with Zero Voltage Switching Control – IEEE 2006**
- **High-Power-Factor Soft-Switched Boost Converter – IEEE 2006**
- **Induction Motor Speed Control using Fuzzy Logic Controller – IEEE 2006**
- **The Dynamic Control of a Switched Reluctance Drive using Fuzzy Logic – IEEE 2006**
- **Improving the Power Density of the ZVS-SVM Controlled Three-Phase Boost PFC Converter – IEEE 2005**
- **An Alternative Configuration for Digitally Controlled Parallel Connected DC-DC Power Converters – IEEE 2005**
- **A Hybrid Controller Design and Implementation for Switched Reluctance Motor Drives – IEEE 2005**
- **Sensor less PM Motor with Multi Degree of Freedom Fuzzy Control – IEEE 2005**
- **Fuzzy Logic Control of Vehicle Suspensions with Dry Friction Nonlinearity – IEEE 2005**
- **Performance Analysis of Fuzzy Logic based Rotor Resistance Estimator of an Indirect Vector Controlled Induction Motor Drive – IEEE 2005**

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- **A Fuzzy Sliding Mode Controller for a Field-Oriented Induction Motor Drive – IEEE 2005**
- **A Novel DC-Dc Full-Bridge Converter using Energy-Recovery Circuit with Regenerative Transformer–IEEE 05**
- **A Novel Resonant Transition Push-Pull Dc-Dc Converter – IEEE 2004**
- **Models for Bearing Damage Detection in Induction Motors using Stator Current Monitoring – IEEE 2004**
- **Comparison of Traditional Inverters and Z-Source Inverter for Fuel Cell Vehicles – IEEE 2004**
- **Electronic Control Units for Automotive Electrical Power Systems – IEEE 2004**
- **Power Factor Improvement of Single-Phase AC Voltage Controller Employing Extinction Angle Control Technique – IEEE 2004**
- **Wireless Ad Hoc Discovery of Parking Meters – IEEE 2004**
- **Optimal Control of Three-Phase PWM Inverter for UPS Systems – IEEE 2004**
- **High Efficiency Fly back Converter using Synchronous Rectification – IEEE**
- **Real-Time DC Motor Position Control by Fuzzy Logic and PID Controllers – IEEE**
- **A Comparison of Voltage-Mode Soft-Switching Methods for PWM Converters – IEEE**
- **A 3KW Soft Switching DC-DC Converter – IEEE**
- **A Three-Level Single-Phase Single-Stage Soft-Switched AC-DC Converter – IEEE**
- **Fuzzy Adaptive Control of an Induction Motor Drive – IEEE**

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- Digital PWM Controller and Current Estimator for a Low-Power Switching Converter – IEEE
- Design and Implementation of a Digital Controller for DC-to-DC Power Converters – IEEE
- Power Systems Harmonic Mitigation for Water and Wastewater Treatment Plants – IEEE
- High Robustness and Reliability of Fuzzy Logic based Position Estimation for Sensor less Switched Reluctance Motor Drives – IEEE
- Oil Well Diagnosis by Sensing Terminal Characteristics of the Induction Motor – IEEE
- Scalar Speed Control of a DQ Induction Motor Model using Fuzzy Logic Controller – IEEE
- Ticket Dispenser & Entry Lane Control Tower for Parking System
- Development of Fuzzy Sliding Mode Controller for Decoupled Induction Motor Drive – IEEE
- Robust Control of a Speed Sensor less Permanent Magnet Synchronous Motor Drive – IEEE

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