

Logic Mind Technologies Pvt Ltd. Bangalore,

8123668066 / 9036159759 / 9108159759

Power Electronics and Power System Projects for Matlab:

| No | TITLE | DOMAIN | YEAR |
|----|--|------------|------|
| 1 | Distribution Switches Upgrade for Loss Reduction and Reliability Improvement. | Electrical | 2016 |
| 2 | Three-Port DC-DC Converter for Stand-Alone Photovoltaic Systems | Electrical | 2016 |
| 3 | Reactive Power Management in Islanded Microgrid—Proportional Power Sharing in Hierarchical Droop Control. | Electrical | 2016 |
| 4 | A Directional Protection Scheme for HVDC Transmission Lines Based on Reactive Energy. | Electrical | 2016 |
| 5 | A Zero-Sequence Voltage Injection-Based Control Strategy for a Parallel Hybrid Modular Multilevel HVDC Converter System | Electrical | 2016 |
| 6 | A Novel Advanced Intelligent Control Technique Based Dual Unified Power Quality Conditioner. | Electrical | 2016 |
| 7 | New Control of PV Solar Farm as STATCOM (PV-STATCOM) for Increasing Grid Power Transmission Limits During Night and Day | Electrical | 2016 |
| 8 | Adaptive Droop Control Strategy for Load Sharing and Circulating Current Minimization in Low-Voltage Standalone DC Microgrid | Electrical | 2016 |
| 9 | Coordination of Overcurrent Relays Protection Systems for Wind Power Plants. | Electrical | 2016 |
| 10 | Operation and Control of Smart Transformer for Improving Performance of Medium Voltage Power Distribution System | Electrical | 2016 |
| 11 | Adaptive PI Control of STATCOM for Voltage Regulation | Electrical | 2016 |
| 12 | An Adaptive Power Oscillation Damping Controller by STATCOM With Energy Storage | Electrical | 2016 |
| 13 | Grid Current Compensator for Grid-Connected Distributed Generation under | Electrical | 2016 |

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| | Nonlinear Loads by Using DQ-SRF Technique | | |
| 14 | A Novel Reduced Switching Loss Bidirectional AC/DC Converter PWM Strategy With Feedforward Control for Grid-Tied Microgrid Systems. | Electrical | 2016 |
| 15 | An Adaptive Nonlinear Current Observer for Boost PFC AC/DC Converters. | Electrical | 2016 |
| 16 | Improved Angular Displacement Estimation Based on Hall-Effect Sensors for Driving a Brushless Permanent-Magnet Motor | Electrical | 2016 |
| 17 | A Scheme for the Power Control in a DFIG Connected to a DC Bus via a Diode Rectifier. | Electrical | 2016 |
| 18 | A Multi-Mode Control Strategy for VAR Support by Solar PV Inverters in Distribution Networks. | Electrical | 2016 |
| 19 | Power Transformer Protection using Wavelet Packet Transform | Electrical | 2016 |
| 20 | Reduced Cost of Reactive Power in Doubly Fed Induction Generator Wind Turbine System With Optimized Grid Filter. | Electrical | 2016 |
| 21 | Full-Range Soft-Switching-Isolated Buck-Boost Converters With Integrated Interleaved Boost Converter and Phase-Shifted Control | Electrical | 2016 |
| 22 | A Modified SEPIC Converter for High-Power-Factor Rectifier and Universal Input Voltage Applications. | Electrical | 2016 |
| 23 | A Multiple-Winding Bidirectional Flyback Converter Used in the Solar System | Electrical | 2016 |
| 24 | A DC–DC Converter Based on the Three-State Switching Cell for High Current and Voltage Step-Down Applications. | Electrical | 2016 |
| 25 | Performance Evaluation of a Electrical Solar-PV Energy System with SEPIC Converter. | Electrical | 2016 |
| 26 | A Bidirectional LLC Resonant Converter With Automatic Forward and Backward Mode Transition. | Electrical | 2016 |
| 27 | A Control Architecture to Coordinate Renewable Energy Sources and Energy | Electrical | 2016 |

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| | Storage Systems in Islanded Microgrids | | |
| 28 | Static Var Compensator and Active Power Filter With Power Injection Capability, Using 27-Level Inverters and Photovoltaic Cells | Electrical | 2016 |
| 29 | Sensorless Control of BLDC Motor Drive Using a Hysteresis Comparator and back emf technique. | Electrical | 2016 |
| 30 | 30. LCL Filter Based UPQC Configuration to Enhance Power Quality in Distribution System. | Electrical | 2016 |
| 31 | 31. Power Quality Improvement Using PI and Fuzzy Logic Controllers Based Shunt Active Filter. | Electrical | 2016 |
| 32 | An Ultracapacitor Integrated Power Conditioner for Intermittency Smoothing and Improving Power Quality of Distribution Grid | Electrical | 2016 |
| 33 | 33. Operation and Control of a Dynamic Voltage Restorer Using Transformer Coupled H-Bridge Converters. | Electrical | 2016 |
| 34 | An Adjustable-Speed PFC Bridgeless Buck–Boost Converter-Fed BLDC Motor Drive. | Electrical | 2016 |
| 35 | Three-level voltage-source inverter for shunt active Filter | Electrical | 2016 |
| 36 | Comprehensive DC Power Balance Management in High-Power Three-Level DC–DC Converter for Electric Vehicle Fast Charging | Electrical | 2016 |
| 37 | Power Factor Control of Large Doubly-Fed Reluctance Wind Generators. | Electrical | 2016 |
| 38 | Comparison of ZVS Based Isolated DC-DC Converters for High Altitude Wind Power Application. | Electrical | 2016 |
| 39 | A BL-CSC Converter-Fed BLDC Motor Drive With Power Factor Correction. | Electrical | 2016 |
| 40 | Comprehensive Real-Time Simulation of the Smart Grid | Electrical | 2016 |

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| 41 | Sensorless Control of BLDC Motor Drive Using a Hysteresis Comparator and back emf technique. | Electrical | 2016 |
| 42 | An Ultracapacitor Integrated Power Conditioner for Intermittency Smoothing and Improving Power Quality of Distribution Grid | Electrical | 2016 |
| 43 | Power Quality Improvement using Unified Power Quality Conditioner with Distributed Generation. | Electrical | 2016 |
| 44 | PFC Cuk Converter-Fed BLDC Motor Drive | Electrical | 2016 |
| 45 | Comparison of Different Soft Techniques applicable to Multilevel Inverter for Harmonic Elimination. | Electrical | 2016 |
| 46 | An Isolated Three-Port Bidirectional DC-DC Converter for Photovoltaic Systems with Energy Storage. | Electrical | 2016 |
| 47 | A Quasi-Unipolar SPWM Full-Bridge Transformerless PV Grid-Connected Inverter with Constant Common-Mode Voltage | Electrical | 2016 |
| 48 | An Energy Stored Quasi-Z-Source Cascade Multilevel Inverter-Based Photovoltaic Power Generation System | Electrical | 2016 |
| 49 | High Frequency Alternating Current Power Supply for Automobile Auxiliary Electrical Systems. | Electrical | 2016 |
| 50 | High-Efficiency Single-Input Multiple-Output DC-DC Converter | Electrical | 2016 |