

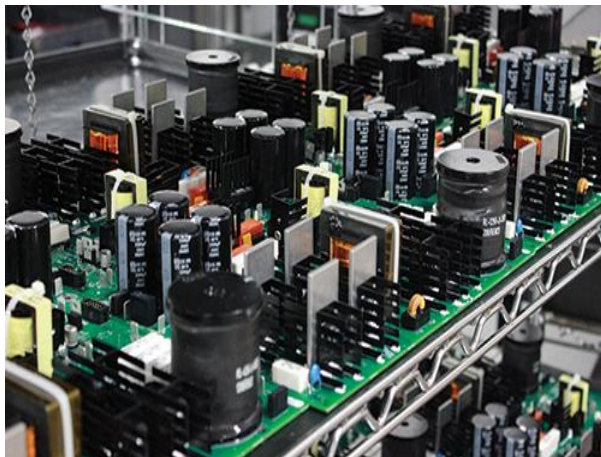


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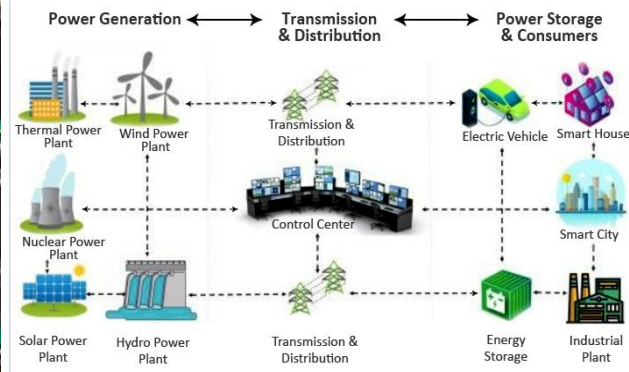


Areas of Research

- **Power Electronics and Drives** - Solid state converter, DC-DC Converter, PWM Controller.
- **Renewable Energy systems** - MPPT Controller, Optimizing Controller
- **Smart Grid** - Smart metering, Home Automation.
- **Electric Vehicles** - Battery Energy management Systems, Switch Controller



Smart Grid : The Electrical Grid of the Future



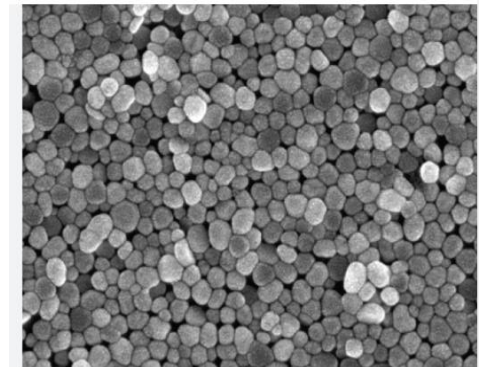


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Areas of Research

- **High Voltage Engineering** - Testing of Power apparatus, Dielectric materials characterization
- **Nano materials** - Synthesis of nano particles, Nano fluids applications
- **EV & Smart grid:** Controllers, Micro grid, Optimization, Electric Vehicles design



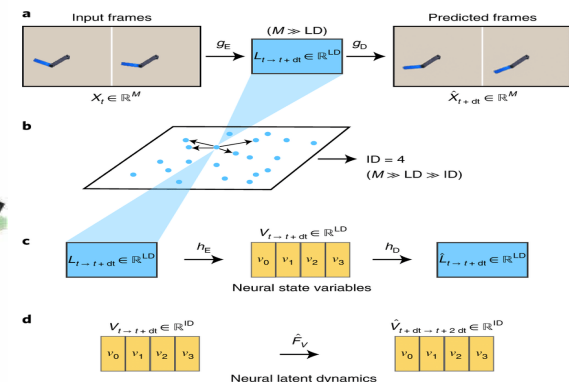


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Areas of Research

- **Power Electronics** - Analysis, Modelling and Control of Switched-Mode Power Converters
- **Measurements and Instrumentation**-Development of electrical measurement circuits, Modelling and simulation of dynamical systems
- **Electric Vehicles and Renewable Energy**- Smart EV Charging, EV motors and Controller Design.



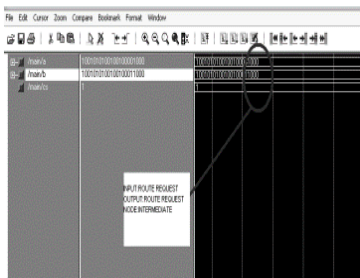


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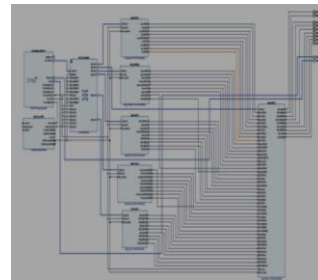


Areas of Research

- **Embedded Systems** - Women safety control, Embedded C programming, Multi programming models, on road dynamic charging system.
- **Wireless Sensor Networks** - FPGA implementation of Routing protocol, Wearable Sensors, Tiny OS
- **Reconfigurable computing** - Reconfigurable architectures, Partitioning algorithms, Hardware and Software co design.
- **VLSI in Image processing** - Vivado design flow, MATLAB programming



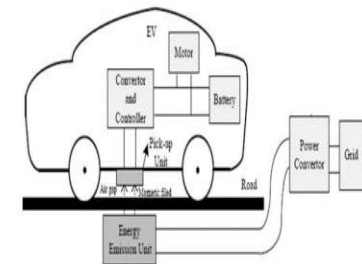
FPGA implementation of Routing protocol



SOC system design



Embedded systems design in Women safety



On-road Dynamic Charging System



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Areas of Research

- **Control Systems**- Robotics, Drome's, Mechatronics, Big Data and IoT, Fault Monitoring and Diagnosis.
- **Process Control**- Power Plant Industries, Petro Chemical Industries, Cement Industries.
- **Measurement and Instrumentation**-Sensors, Transducers, Smart Sensors, MEMS.
- **Controllers**-Neuro tuned Controllers, Fuzzy Logic Controllers, Adaptive Controller and Model Predictive Controller.



Robotics



Process Industries



Drome's



Bio-Medical Engineering

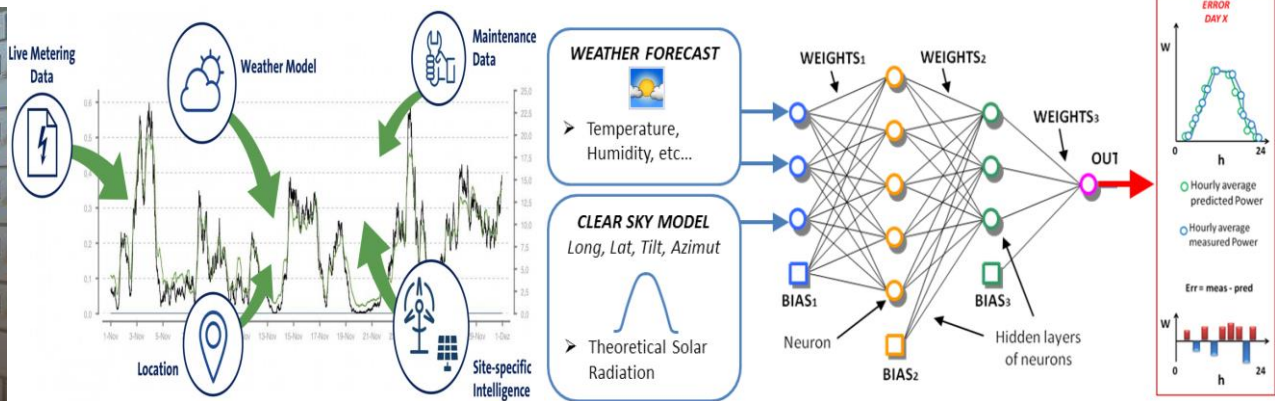


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AREAS OF RESEARCH:

- **Power System Dynamics**- Modelling and simulation of power system dynamics, Frequency response analysis
- **Power System Optimization**- Renewable integration and grid integration studies, Demand response and load management.
- **Autonomous Vehicles**- Electric vehicle (EV) integration into the power grid, Vehicle electrification and impact on power system dynamics.
- **Energy Forecasting using ML/AL Models** -Wind power and solar energy forecasting for renewable integration.





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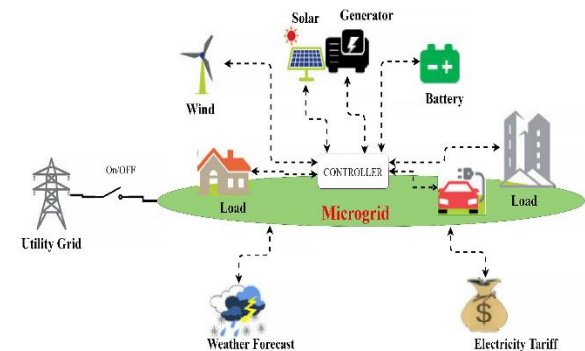
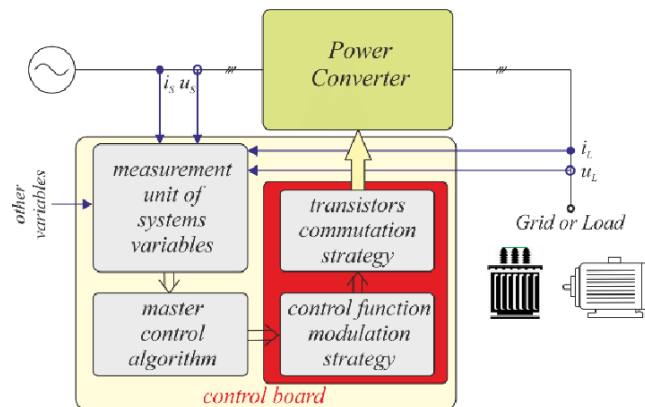
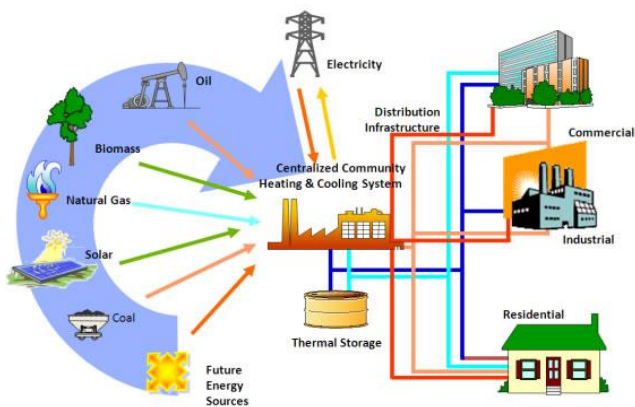
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Areas of Research

- **Renewable Energy Systems** - Biomass, Geothermal resources, Sunlight, Water, and Wind, are Natural resources.
- **Power Electronic Converter** - AC to DC Converter, DC to DC Converter, AC to AC Converter, DC to AC Converter.
- **Micro Grid** - Real time monitoring, Automated outage management, faster restoration, and Grid integrated Systems.





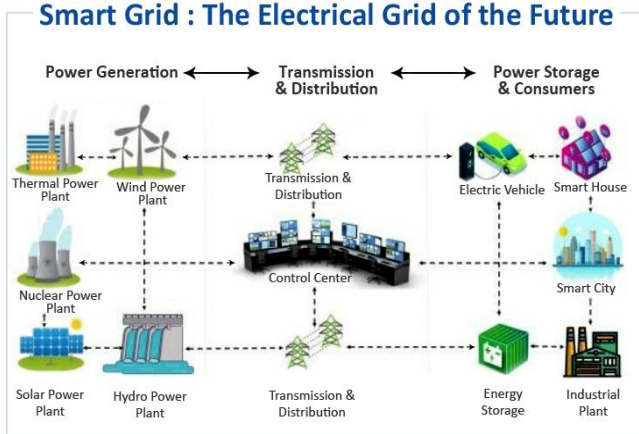
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Areas of Research

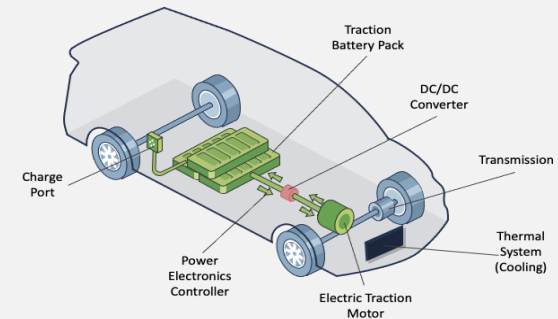
- **Power Electronics and Drives** - Solid state converter, DC-DC Converter, PWM Controller.
- **Renewable Energy systems** - MPPT Controller, Optimizing Controller
- **Smart Grid** - Smart metering, Home Automation.
- **Electric Vehicles** - Battery Energy management Systems

Smart Grid : The Electrical Grid of the Future



ELECTRIC CARS

Components of an All-Electric Car



Source-afdc.energy.gov



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Areas of Research

- Control System
- Instrumentation
- Renewable Energy Systems





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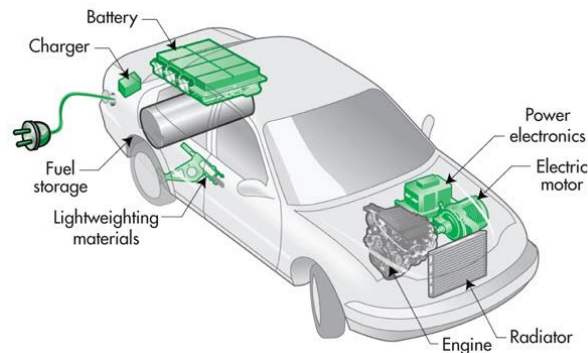
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Areas of Research

- **Power Electronics and Drives** - Converters, Inverters, Cycloconverters, AC Voltage Controllers.
- **Electric Vehicles** - Electric Vehicle Mobility, Autonomous Vehicle, Charging Stations, BMS, EV Design.



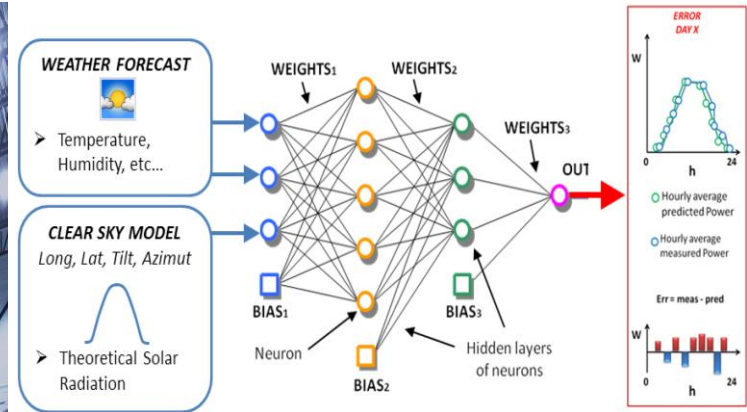
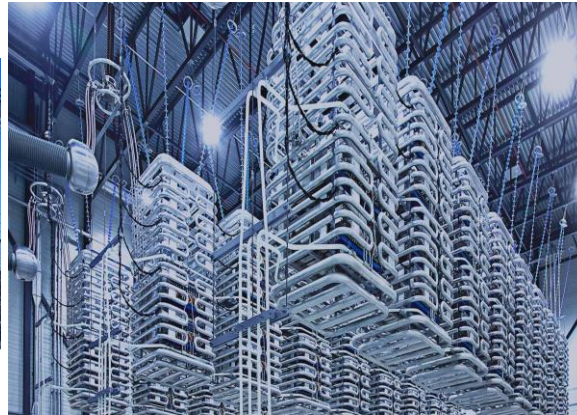


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Areas of Research:

- **Power Quality**- Modelling, simulation and Analysis of power Quality Issues in power system.
- **HVDC and FACTS**- Modelling and simulation of power electronic applications to power system.
- **Power System Optimization**- Renewable integration and grid integration studies, Demand response and load management.
- **Autonomous Vehicles**- Electric vehicle (EV) integration into the power grid, Vehicle electrification and impact on power system dynamics.





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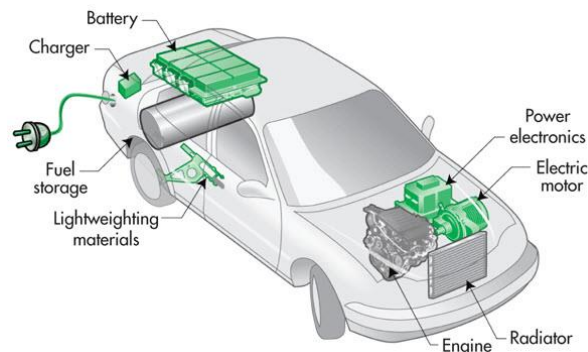
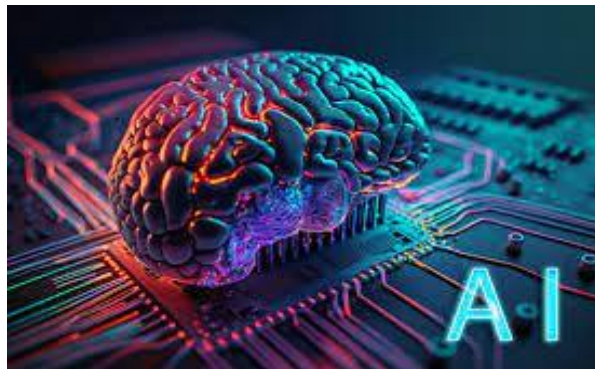
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Areas of Research

- **Power Electronics and Drives** -SSD, Converters, Inverters, Cycloconverters, AC Voltage Controllers.
- **Electric Vehicles** - Electric Vehicle Mobility, Autonomous Vehicle, Charging Stations, BMS, EV Design.
- **Artificial intelligence**- Machine Learning, Deep Learning, Reinforcement Learning, Robotics, Optimization techniques.
- **Power System** – Micro Grid, Smart Grid, FACTS, HVDC.





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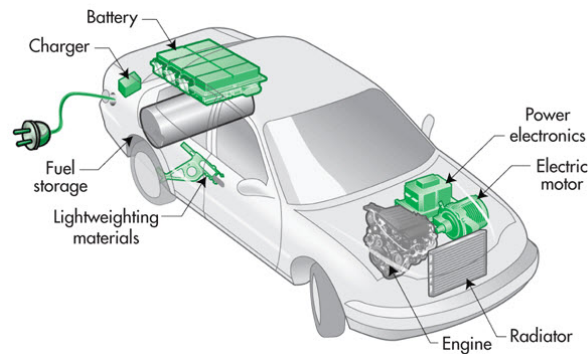
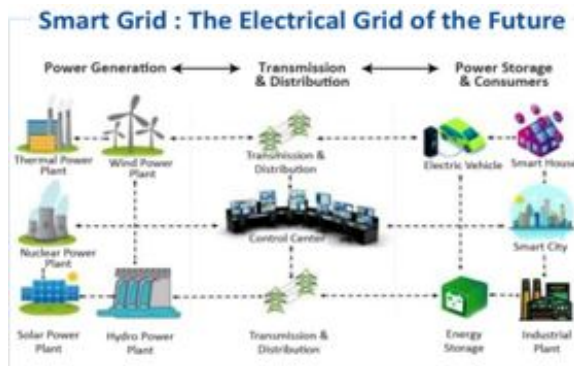
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Areas of Research

- **Power Electronics and Drives** -SSD, Converters, Inverters.
- **Smart Grid** - Home Automation.
- **Renewable Energy Systems**- Optimizing Controller.





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Areas of Research

- **Power Electronics and Drives** - AC-DC Converters, DC-DC Converter, DC-AC Converters, SVPWM.
- **Renewable Energy systems** - Wind turbine-DFIG, High Power conversion systems.
- **Variable frequency drives** - IGBT based drives, SCR based drives, Soft switching.
- **Electric Vehicles** - Control Units, Battery controller systems.





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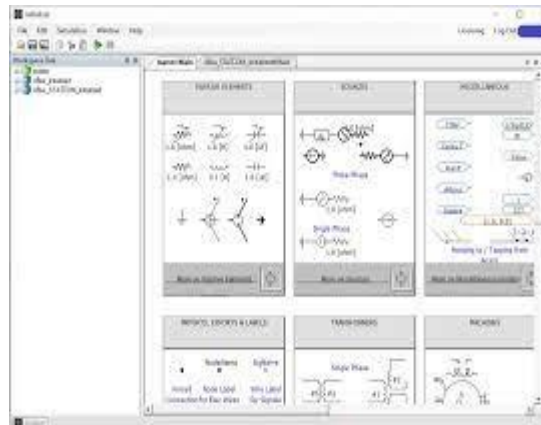
Areas of Research

- **Power Systems** - Restructured Power Systems, Congestion Management in Transmission Line, Power System Study state analysis and Power System Dynamic Analysis.
- **Renewable Energy Systems** - Solar Power simulator, 3 kW Solar Power Plant.

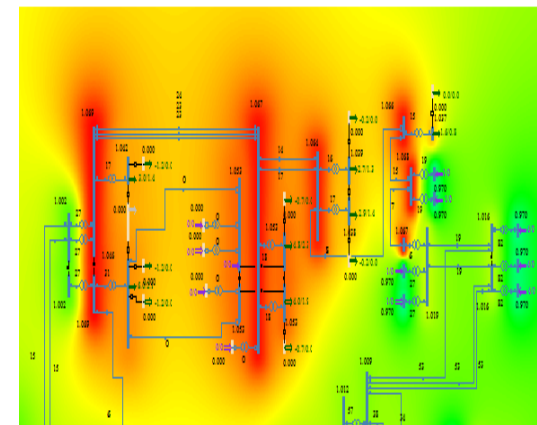
Mi-Power



PSCAD



EUROSTAG 4.0





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Areas of Research

- Power Electronics for Renewable Energy Systems
- Motor Drive Technologies
- Battery Charging Technologies
- Battery Management System
- Electric Vehicle Systems