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Ramya

A dedicated and hardworking Electrical Engineer with over 3 years of research experience in power systems, aspiring to pursue a challenging career and contribute to an organization that offers opportunities for knowledge enhancement and skill utilization towards organizational and personal growth.

Work Experience Summary

2021 – PRESENT

Research Associate - PES University, Bengaluru, Karnataka

- My research focuses on developing and implementing peer-to-peer energy sharing models to optimize local energy distribution, integrating Electric Vehicles as constant power loads, and enhancing the use of renewable energy in power systems. Losses are allocated to prosumers based on their usage and proximity, energy schedules are optimized by considering demand, distance, and cost, and imbalance charges are applied to manage energy discrepancies during scheduling.
- Over 10 PCBs were designed and more than 25 PCBs were fabricated for various research projects.
- Led hands-on laboratory sessions for Microcontroller Lab and Digital System Design & Synthesis using Verilog.
- Project assistance to UG & PG students based on MATLAB/Simulink, Buck - Boost Converter Design.

Projects Undertaken

Project Name	Power Management in Microgrid and Fault Analysis
Description	This project aims in managing different electrical sources like Solar PV Panel, Wind Energy Source etc. by switching. Suitable algorithm is adopted to have efficient and economic operation. Faults are created in different region of the system and its responses are analyzed and isolated from the non-faulty areas.
Tools	MATLAB/Simulink R2017a, Arduino Uno
Key Achievements	'Best Poster Paper Award' in International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES -2020) in Bengaluru

Project Name	Single Phase Shunt Active Filter
Description	The project focuses mainly on removing current harmonics present in the single-phase system by using active filter which will improve the quality of power.
Tools	MATLAB/Simulink R2017a, ST Embed Software
Key Achievements	<ul style="list-style-type: none"> Selected for 44th KSCST project funding Awarded Top 3 project in EXPO'18

Skills and Hobbies

Programming Languages	C Language, Python
Hardware/Embedded Systems Skills	MSP430, STM32 F4 Discovery Board, AMD Spartan 7 XC7S50 FPGA Board, Arduino Uno
Utility tools	MS-Word, MS-Excel, MS-PowerPoint
Other Tools	KiCad, MATLAB/Simulink, Vivado, Arduino IDE, IAR Embedded Workbench IDE Code Composer Studio, Keil-uVision4, PSpice, GitHub
Hobbies	Sketching, Painting, Singing, Playing Ukulele, Gardening
Other skills	Good oral and written communication skills

Activities and Achievements

- Gold medalist in M-Tech & B.E. in Electrical and Electronics Engineering
- Organized Hackathon event in Department of Electrical and Electronics Engineering, PES University, Bengaluru in November 2021
- Organized Guest Lecture on 'Modeling of Machines and Power Electronics' in April 2022

Education

OCTOBER 2018-JUNE 2020

Master of Technology in Electrical and Electronics with specialization in Smart Power Control, PES University, Bengaluru, CGPA - 9.55

AUGUST 2014-JULY 2018

Bachelor of Engineering in Electrical and Electronics, NMAM Institute of Technology, Nitte, CGPA - 9.5

JUNE 2012-MAY 2014

Class XII, Mahatma Gandhi Memorial PU College, Udupi - 92.67%

JUNE 2002-MAY 2012

Class X, B. M. E. M. High School, Parkala - 94.08%

Declaration

I hereby declare that the information provided above is accurate and I take full responsibility for its correctness.

RAMYA