

Dr.Prakash Pawar

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Areas of Interest

- Demand Side Energy Management.
- Embedded System & IoT, Machine Learning.
- VLSI & Digital System Design.

Technical Skills

- C, Embedded C, Verilog HDL, μ C Assembly (8051), MATLAB, Python.
- MATLAB, Xilinx(ISE), Cadence(Virtuoso), Keil-8051, Proteus-7.4.

Education Qualifications

Qualification	Major	Year	Name of the Institute
Ph.D.	Demand Side Smart Energy Management	2020	National Institute of Technology Karnataka, Surathkal-575025
M.Tech	VLSI Design & Embedded System.	2013	R.V College Engineering, Bangalore, Karnataka-560059
B.E	Electronics & Communication Engineering.	2010	Dr. Ambedkar Institute of Technology, Bangalore, Karnataka-560056.

Work Experience

Year	Designation	Name of the Institute
Jan 2015 – Dec 2019	Ph.D. (Research scholar)	National Institute of Technology Karnataka, Surathkal Mangalore-575025
July 2013 – Dec 2014	Assistant Professor	BLDEA's college of Engineering, Vijayapura Karnataka-586103

Subjects Handled

Year	Designation	Subjects
Jan 2015 - Dec 2020	Teaching Assistance	Embedded System Design, Verilog HDL, Logic Design, Analog Electronics Circuits.
July 2013 – Till Date	Assistant Professor	MicroController-8051, Low Power VLSI Design, Linear Integrated Circuits, Verilog HDL, Digital System Design. Laboratory: Analog Electronics Circuits, Logic design, Micro-Controller (8051), Power Electronics Lab, Verilog HDL.

Professional Activities

- Member, Institute of Electrical and Electronics Engineering (IEEE).

Ph.D. Work:

- ***“Development of Advanced Smart Energy Management Framework Integrated with Optimization techniques and Prediction Models for Demand Side Consumers with IoT platform”.***

Selected Publications

International Conference

1. Prakash Pawar, Shantanu Sampath, Trisha Ghosh and Vittal K P (Dec, 2018), "Load Scheduling Algorithm Design for Smart Home Energy Management System", 2018 IEEE 7th International Conference on Power and Energy (PECon), pp. 304-309, Kuala Lumpur, Malaysia.
2. Pawar, Prakash, and K. P. Vittal. "Design of smart socket for power optimization in home energy management system." In *2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)*, pp. 1739-1744. IEEE, 2017.

International Journals

1. **P. Pawar** and K. P. Vittal, "Design and development of advanced smart energy management system integrated with IoT framework in smart grid environment" in *Journal of Energy Storage (Elsevier Publisher)*, vol. 25, pp.100846, Oct. 2019. [SCIE, IF= 3.51]
2. **P. Pawar**, M. Tarunkumar, and Vittal. K.P, "An IoT based Intelligent Smart Energy Management System with accurate forecasting and load strategy for renewable generation" in *Measurement (Elsevier Publisher)*, vol. 152, pp. 107187, Oct. 2019. [SCIE, IF=2.79]
3. **P. Pawar** and Vittal. K.P, "Performance analysis of a smart meter node for congestion avoidance and LoS coverage" in *AIMS Energy*, vol. 7, pp. 313–336, Jan. 2019. [ESCI - Web of Science].