

# Curriculum Vitae

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## Krishna Molli,

Department of Electrical Engineering,  
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**Objective:** To enhance my abilities with continuous learning and pursuing research in the field of Power systems.

**Personal Data:** Born on 8<sup>th</sup> March 1987, Male, Married, Indian Citizen.

## Education:

### Ph. D.

Department of Electrical Engineering,  
Pondicherry Engineering College, Pondicherry University,  
Pondicherry, India.

**Research Area:** Power Systems (Hybrid micro-grid AC/DC ).

**Supervisor:** Dr. P. Ajay-D-Vimal Raj.

**Duration:** 18-10-2019 to till date

**Pursuing**

**M-tech (Advanced Power Systems)** from University college Engineering , Kakinada (JNTUK) with **75.42%** Passed out in November 2012.

**B.E (Electrical And Electronics Engineering.)** from SRKR Engineering College, Bhimavaram with **71.72%** passed out in April 2009.

**Diploma (Electrical And Electronics Engineering)** from AANM and VVSR Polytechnic College, Gudlavelleru with **75.32%** Passed out in March 2006.

**S.S.C** from Z.P.High School, Paravada with **64.00%** passed out in March 2003.

## Research Interests:

- Micro-Grid
- Solid State Transformers
- Multilevel inverters for renewable energy applications;
- Power system stability;
- Renewable Energy systems integration to grid;
- Off-shore Wave power systems based on permanent magnet linear generator.
- Electric Vehicles

## Publications

### Journals:

1. A.Hema Chander<sup>1</sup>, **M.Krishna<sup>2</sup>**, Y.Srikanth<sup>3</sup> ."**Comparison of Different types of Solar Cells a Review**" IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 10, Issue 6 Ver. I (Nov – Dec. 2015), PP 151-154,
2. Srikanth Y, Kumarval, **Krishna molli**, A Hema Chander. "**Optimum Amplitude Venturini Modulation Based Matrix Converter Fed Induction Motor Drive**". IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 10, Issue 6 Ver. II (Nov – Dec. 2015), PP 78-85.
3. M Santosh Kumar<sup>1</sup>, **M Krishna<sup>2</sup>**, Alekh Ranjan<sup>3</sup>, Manisha Dubey<sup>4</sup> , **Permanent Magnet Linear Generator Design**. IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 10, Issue 6 Ver. II (Nov – Dec. 2015), PP 86-90.
4. **Krishna molli**, Plugging of Inverter Loads in Micro-Grid to Enhance Power System Stability, ISSN: 2455-2631, November 2016 IJSDR | Volume 1, Issue 11.
5. G. Naresh, M. Ramalinga Raju, **M. Krishna**, Robust Design of Multi-Machine Power System Stabilizers using Clonal Selection Algorithm, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-6 Issue-5, November 2017.
6. **Krishna molli**, P. Ajay-D-Vimal Raj. (2020). "**Transformer based MLI to integration of PV using power angle base MPPT controller**". *International Conference on Advances in modelling, control and optimization of Electrical Systems (ICAES 2020)*, ISBN: 978-93-5406-775-4.
7. **Krishna Molli**, P. Ajay-D- Vimal Raj, N.P.Subramaniam, M.Sudhakaran "**Stabilized Power Management in the Microgrid Using Unified Delta Controller,**" *Journal of electrical systems*, vol. 17, no. 3, pp. 376–388, 2021.
8. **Krishna Molli**, P.Ajay-D-Vimal Raj, N.P.Subramaniam, "**Transformer Based 25-Level T-Type MLI for Renewable Energy Integration,**" *IEEE Journal of Emerging and Selected Topics in Industrial Electronics.*, vol. 9735, no. c, pp. 1–1, 2022, doi: 10.1109/jestie.2022.3164252.

### Workshops / FDP's Attended:

1. Workshop on **A two day workshop on Advanced Power System Protection** conducted at *JNTU Vizianagaram*) in 2013
2. Workshop on "**A two day National Workshop on Planning, Operation and Control of Microgrid-I (POCMGRD -2015)**" conducted at *Andhra University* in 2015
3. Workshop on **LabVIEW-and Multisim** conducted at *Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam* in 2015
4. **Five days FDP on Outcome based teaching, learning and assessment strategies**. Conducted at *Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam* in NOV 2019.
5. Workshop on **Smart Grid - Conceptualization and Implementation**, Lendi Institute of Engineering and Technology.
6. Workshop on **Electric Power System** through ICT, IIT Kharagpur at *Gayatri Vidya Parishad College of Engineering (A)*
7. One week GIAN Course on **Advanced Power Electronics for Future Energy Systems** in

VNIT, Nagpur.

8. NPTL course on **Fundamentals of Electrical Engineering**, 12 Weeks duration with **Elite+ Gold medal** certification.
9. NPTL course on **Basic Electrical Circuits**, 12 Weeks duration with **Elite** certification.
10. Attended “ **30 days master class on electric vehicle design**” organized by Skill AP (APSSDC).
11. Attended “ **30 days master class on IoT**” organized by Skill AP (APSSDC).

### **Working Experience:**

1. **Assistant Professor,** **3-06-2013 Till date**  
Department of Electrical and Electronics Engineering, Gayatri Vidya Parishad College of Engineering for Women, Visakhapatnam.

### **Computing Skills**

- **Simulation Software:** MATLAB, PowerSIM, MAXWELL, Power World, PSCADA, LABVIEW.
- **Design software:** Code Composer Studio (CCS), DSP.
- **Programming Languages:** MATLAB.

### **Member Ship in Professional Bodies:**

- Associate Member of The Institute of Engineers (India)

### **Extra Curricular Activities:**

1. Organizer and Resource person of one day Workshop on **Integration Renewable source of Energy to the Grid.**
2. Control and Monitoring of 50kW hybrid power Plant.
3. Evaluator for **27<sup>th</sup> National Science Congress-2019, Visakhapatnam.**
4. Reviewer for **International journal of electronics.**

### **Hardware Projects handled:**

1. Design of MPPT charge controller for 10kW, PMSG Wind turbine.
2. MLI for solar energy integration using DSP controller.
3. Design of MPPT charge controller for Off-Grid solar PV system.
4. Design of Three phase, 10KVA, 50Hz, LV transformer.
5. Retrofitting of Electric Vehicles.
6. Solid state transformer based MLIs.
7. 250 Wp solar power tree for EV charging.

### **Subjects Taught:**

1. Electrical Circuit Analysis
2. Electrical Machines
3. Electrical Measurements
4. Electrical Machine Design
5. Special Electrical Machines
6. Power System Operation & Control
7. Electric Power Quality.

8. IoT applications for electrical

**Labs Taught:**

1. Electrical Machines Lab
2. Electrical Circuits Lab
3. Control Systems Lab
4. Power Electronics Lab
5. Power Systems Lab
6. Electrical Measurements Lab
7. Power Systems Simulation Lab
8. Skill oriented lab

**Declaration:** I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Visakhapatnam

( Krishna Molli )