

# Dr. CHETHAN RAJ.D

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Contact: Dept of Electrical and Electronics, BMSCE  
Basavangudi, Bengaluru-560019.

Present Employment: Assistant Professor, Dept of EEE, BMSCE

## CAREER OBJECTIVE

To buildup a career in an organization that could provide ample opportunities for the enhancement of professional capabilities and to consistently reflect high standards of performance and integrity thereby ensuring organizational and professional growth.

## QUALIFICATION

Examination	Institute/University	Year of passing
Ph.D(Electrical and Electronics)	National Institute of Technology Karnataka, Surathkal.(NITK). Ph.D thesis entitled as: Operation and control of a microgrid with distributed generation systems.	2020
MTech(Computer application in industrial drives)	M S RAMAIAH INSTITUTE OF TECHNOLOGY	2011
BE(Electrical and Electronics)	SAPTHAGIRI COLLEGE OF ENGINEERING, V.T.U	2009
PUC	SRI JAGADGURU RENUKACHARAYA P.U. COLLEGE, Bangalore,	2005
10 <sup>th</sup>	ST JOSEPH'S HIGH SCHOOL, Bangalore,	2003

## RESEARCH PROFILE

Number of International journal papers:03, Number of International conference papers:03, Number of citation:39.  
Significant Publications:

- 1.Chethan Raj D, D N Gaonkar, J M Guerrero, "Improved Pf/QV and PV/Qf droop controllers for parallel distributed generations in AC microgrid." International journal on sustainable cities and society, Vol.40,No.1, pp.421-442, May 2018.(Impact factor:5.1).
2. Chethan Raj D, D N Gaonkar, "Frequency and voltage droop control of parallel inverters in microgrid," 2<sup>nd</sup> IEEE International conference on control, instrumentation, energy and communication, pp:407-411, Jan 2016.

## SKILLS

Languages : C,C++, Java,Python,R Programming, PIC Microcontroller, Matlab, Simulink, Multisim, Psim, Orcad Pspice, PLC Programming training (Allen Bradley, Siemens S7-200,GE Fanuc) and Scada software intouch wonderware in prolific private limited.

Certifications : NPTEL Online certification: Successfully completed the course on: Data mining, Data Science for engineers, Machine learning, Descriptive statistics with R Software and Big data.(Jan-May 2019).

## B.E, M.tech,Ph.D Project Details

Development of repetitive surge generator,Multitank water level controller using PIC microcontroller, Modeling and parameters estimation of batteries for electric vehicle, Design of armature control circuit for DC motor using H- Bridge,Design of inverter 230V/50Hz. Operation and control of 1MW rooftop solar plant at NITK Surathkal, Opeartion and control of hybrid PV and wind plant at NITK Surathkal , Operation and control of fuel cell system at NITK Surathkal.

## Industrial Experience

- Company:** Honeywell Technology Solutions Lab, Bangalore.  
**Duration:** 27<sup>th</sup> September 2010 to 1<sup>st</sup> July 2011.  
**Project undertaken:** Modeling and parameters estimation of batteries for electric vehicles.  
**Designation:** Project Trainee.
- Company:** Auma India Pvt Ltd.  
**Duration:** 25<sup>th</sup> July 2011 to 31<sup>ST</sup> July 2012.  
**Project undertaken:** 1.Quality and Productivity improvement in motor area by conducting the Routine tests, development of a test circuit for Electronic E-Pac module, Streamlining of motor manufacturing, Implementing the kaizen activity, Data collection plans.  
**Designation:** Management Trainee.

## SHORT TERM COURSES AND WORKSHOPS ATTENDED

1. Training programme on Lean basics of world class production systems, Auma india pvt Ltd, Bangalore, January 2012.
2. Training programme on Estimation of measurement uncertainty in testing, Auma india pvt Ltd, Bangalore, April 17<sup>th</sup> to 18<sup>th</sup> April 2012.
3. Training programme on Faculty development program, NITK STEP, Surathkal from Dec 16 to 26 Dec 2013.
4. Short term course on Principles of analog and digital measurements and hardware debugging techniques, 19<sup>th</sup> Sep to 20<sup>th</sup> Sep 2013, Dept EEE, NITK Surathkal.
5. Short term course on Selected topics of research in electrical power, 27<sup>th</sup> Sep to 28<sup>th</sup> Sep 2013, Dept EEE, NITK Surathkal.
6. Short term course on Advanced process control, 18<sup>th</sup> July to 20<sup>th</sup> July 2013, Dept Instrumentation and control engineering, NIT Tiruchirappali.
7. Short term course on Advances in process control, 4<sup>th</sup> Oct to 5<sup>th</sup> Oct 2013, Dept of chemical, NITK Surathkal.
8. Training Programme on Power electronics in distributed generation, Dept of EEE, NITK Surathkal.
9. Short term course on Smart initiatives in energy systems, 11<sup>th</sup> Sep to 12<sup>th</sup> Sep 2014, GE-John F Welch Technology centre, Bangalore.
10. Short term course on Power electronics applications and technology in present energy scenario, 4<sup>th</sup> March to 6<sup>th</sup> March 2015, Dept EEE, NITK Surathkal.
11. Short term course on Microsoft week of AI, Virtual online workshop series, 27<sup>th</sup> May-31<sup>st</sup> May 2019.

## Extracurricular Activities and achievements

- Played basket ball and cricket for school team, NCC "B" certificate (Army).
- Participated in many quiz competition at school and college levels, Participated in many camps held by NCC.
- Worked in R&D team at Honeywell Technology Solutions Lab, Bangalore.
- Best Project Award in M.tech.
- 2012-2017, Scholarship for perusing research study at the Dept of Electrical and Electronics Engineering, NITK Surathkal, awarded by Dept of Human Resource and Development, Govt. of India.

## Personal Details

Father's Name	Devaraju. M.
Date of Birth	03-03-1987.
Gender	Male.
Marital Status	Unmarried.
Nationality	Indian.
Languages Known	English, Hindi, Kannada, Tamil, Telugu.
Hobbies	Surfing on Internet, Listening music, Reading technical magazines.
Passport No.	Z3860849.

## DECLARATION

I hereby declare that above information is true to the best of my knowledge.

PLACE: Bangalore

DATE

**CHETHAN RAJ .D**