

PERSONAL INFORMATION

Bharath Kumar Kadiyala



- 📍 6-12-4, K. B. layout, Tirupati, 517501, Andhra Pradesh, India (Permanent)
- 📍 Flat no. 503, building 26, The Petroleum Institute, 2533, Abu Dhabi, UAE (Present)
- ☎ +971 - 505873839
- ✉ bharath0714@gmail.com

Sex Male | Date of birth 12/07/1990 | Nationality Indian

PERSONAL STATEMENT

Masters graduate with industrial experience having strong understanding of electrical engineering fundamentals, now seeking research opportunities in the area of electrical physics and engineering.

WORK EXPERIENCE

January 2022 – Till Present



Lecturer cum acting HOD in Electrical and Electronics Engineering,
Department of Technical Education,
The Government of Andhra Pradesh, India.

Project at DoTE

Retrofitted Electric Vehicle with IoT driven Intelligent Battery Swapping Networks

March 2016 – June 2017



Research Assistant at the High Voltage Laboratory
Department of Electrical Engineering
The Petroleum Institute (PI), Abu Dhabi, UAE

Project at PI:**Title: PI High-Voltage Accreditation Laboratory****Description:**

1. Establishment of a fully operational high-voltage laboratory at PI and obtain AMS Accreditation Certificate from International bodies.
2. Investigate climatic effects on high-voltage measurements and recommend correction factors where necessary.
3. After the installation of all power sources, I am responsible to carry out the dielectric tests using various power equipment and fulfil the requirements for international accreditation in accordance with IEC standards 60060-1, 2.

September 2013 – January 2016



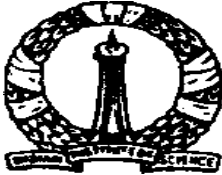
Engineer in Ultra high Voltage Research Team, Global R&D
Crompton Greaves Ltd., Mumbai, India

Project at Crompton Greaves Global R&D:**Title: Design Guidelines for 245 kV Bio-Degradable Oil Power Transformer****Description:**

1. Design and analysis of test transformer prototype to withstand voltages up to 1300 kV_{peak}.
2. Carry out Electrostatic Field analysis on test prototype to develop dimensionally optimised test setup by bringing down the tangential and normal field components to their acceptable limits.
3. Impulse and AC breakdown testing for various configurations using biodegradable oil using the test prototype in accordance with IEC standards 60060, 60270.

EDUCATION

August 2011 - June 2013



Masters in Electrical Engineering
Indian Institute of Science (IISc), Bangalore, India
Grade: 5.8 / 8.0 First class.

Project at IISc:

Title: Corona and Audible noise performance of 1200 kV transmission lines

Description:

1. Develop a new compact methodology for calculation of the corona current due to ion flow in MATLAB environment.
2. Calculating audible Tonal noise (100 Hz) using the above calculated corona current.

Project Supervisor: Dr. Joy Thomas M.
INDIAN INSTITUTE OF SCIENCE,
Bangalore, India.

Course modules in Master's at IISc :

- Electromagnetism
- High Voltage Engineering
- EHV- UHV Transmission Engineering
- High Voltage Power Apparatus
- Over Voltages in Power Systems
- Numerical Methods for Non Linear Equations and Differential Equations
- Advanced Computer Aided Power System Analysis
- Power Electronics
- Electric Drives
- Dynamics of Linear Systems
- Electronic Circuits Lab
- Analog and Digital Conversion Systems
- Digital Controllers for Power Applications

August 2007 - May 2011



Bachelors in Electrical and Electronics Engineering
Jawaharlal Nehru Technological University (JNTU), Anantapur, India
Grade: 78.9 % - First class with distinction.

PUBLICATIONS

Journals:

1. Bharath K., Joy Thomas M., "*Computation of Audible noise due to corona from 1200 kV transmission line*", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 23, No. 2, pp. 974-978, April 2016.

Conferences:

2. Bharath Kumar, Nouredine Harid, Huw Griffiths, "Measurement of Building Grounding System Resistance", Petroleum Institute R&D Conference and Exhibition, March 21-21, 2017, Abu Dhabi, U.A.E.
3. Bharath Kumar, Chakravarthy, Muthuraj, "Creepage strength of bio fluid-pressboard insulation under quasi-uniform electric fields", accepted for 19th International Symposium on High Voltage Engineering (ISH 2015), Pilsen, Czech Republic, 2015.
4. Manikanda, Muthuraj, Bharath Kumar, "Modeling of partial discharge in synthetic Ester using charge simulation method", Proceedings in cipres conference, INDIA, May 2014.

FIELDS OF EXPERTISE

- High Voltage Insulation Design
 - Power Transformer
- High Voltage testing
 - Impulse Voltage testing
 - Power Frequency testing
 - Partial Discharge testing
 - Dielectric Loss
- Electromagnetics
- Electrical Breakdown Mechanisms in Various Dielectric Media.
- High Voltage Transmission Systems
- Earth Resistance and Soil Resistivity Measurements and Analysis

COMPUTER SKILLS

- good command on finite element method tools (FEM)
- Model building tools like Solid works
- Programming in MATLAB
- Microsoft Office™ tools

ACADEMIC ACHEIVEMNTS

- As far as my academic accomplishments are concerned, I have secured an All India rank of 11 in Masters Entrance exam, GATE-2011.

PERSONAL SKILLS

- Playing Badminton and won the championship in the inter-department tournament
- Playing Violin (Camatic Music)

Mother tongue

Telugu (language from southern part of India)

Other language(s)

	UNDERSTANDING		SPEAKING	WRITING
	Listening	Reading		
English	7.5	7.0	6.5	6.0
International English Language testing System (IELTS). Overall Band - 7.0				

- References
- Dr. Joy Thomas M.
Assistant Professor, Electrical Engineering
Indian Institute of Science
Bangalore, India.
Email: jtm@ee.isc.ernet.in
 - Dr. Malay Jana
Post Doctor Researcher,
Oklahoma State University,
United States.
Email: malay.jana@okstate.edu