

## CV



**Brief Vitae of:** HEMCHANDRA M. SHERTUKDE, Ph.D., P.E.,

And;

Diploma in Management Studies (D.M.S.) from Jamnalal Bajaj Institute, Mumbai

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- Thirty eight years of academic, industrial and leadership experience in the Electrical Engineering field
  - Thirty one years in an Academic field in the US. Just completed 25 years of teaching and research in the Electrical and Computer Engineering Department at the University of Hartford in CETA since 1988.
  - Ten years in industry as a Senior Executive with an Electrical Contractor-CGL
  - Four years as Head of an Electrical Engineering Department in the USA at University of Hartford, 1994-98

- Five years as Director of Graduate Studies of a College of Engineering at University of Hartford, 1993-98
- Visiting Professor at Yale, New Haven, CT since Fall 2011 - invited to teach electronic devices course ENG-325 for senior UG students
- Excellent research and development record with two commercialized patents, Journal transactions and peer reviewed proceeding papers in Controls, Signal Processing, fault detection and structural integrity evaluation
- Excellent extra-mural funding record up to \$5 million
- Recipient of Bent Award for Creativity and Research at University of Hartford, 1997
- Graduate of an elite Technology Institute in India - Indian Institute of Technology Kharagpur (IIT), which just celebrated its Diamond Jubilee in December of 2012). IIT is compared to institutes in the USA like MIT, Yale etc.
- Spearheaded efforts to initiate a MoU with IIT-KGP for student and faculty exchange which was signed in January--February of 2014. The initial talks began in 1993-94 when as the Director of Graduate Studies for the College of Engineering had Professors Dr. Chopra (erstwhile Director of IIT-KGP) and Dr. Sanyal (erstwhile Director of the Technology Park at IIT-KGP).
- Spearheaded efforts to initiate an MoU between UHART and IIT-KGP for student and faculty exchange which was signed in January--February of 2014
- Spearheaded efforts to initiate an MoU between IET-Kamrej, Surat and IIT-KGP for student and faculty exchange which was signed in January 05 of 2009, under the aegis of the Government of Gujarat, India when our present Prime Minister of India Hon. Narendra Modi was its Chief Minister
- Initiate talks with the Education and Health Minister of Maharashtra Hon. Ms. F Khan in 2012 to start an International College of Engineering (ICE) in the Konkan belt. This project is ongoing.
- On the Executive Board of local Sri Satyanarayana Hindu Temple in

Middletown CT, 1991-1994; 2010-2013

- Raised funds for Latur earthquake and donated a large sum of money to the Maharashtra Govt. handing checks to then Chief Minister Pawar in 1993-94
- Raised close to \$0.5mm for the Hindu Temple in CT.
- Batch leader from USA for the 1975 batch at IIT-KGP, to raise > INR50 Lakhs so as to have a classroom named after the batch. The dedication ceremony takes place on January 9-11, 2015 in Kharagpur.
- **Keynote Forum:**
  - Hemchandra M. Shertukde, "Identification of Human Embryonic Stem Cells Using Signal Characteristic Analysis (**hE[SC]2AN**), BIT's 2<sup>nd</sup> World Congress of MolMed-2012 and BIT's 3<sup>rd</sup> World Congress of Biomarkers-2012, December 2-4, 2012, Guangzhou, China
  - Listed in "Who's Who in Science and Engineering, 1993
  - Listed in "Men of Achievement" UK, 1993
  - Listed as "International Man of the Year" UK, 1993
  - Listed in "Who's Who in the East", 1992.
  - Member of Tau Beta Pi and Eta Kappa Nu honor societies.
- Crompton Greaves Ltd (CGL), Bombay, India 1977-1983: (In collaboration with Westinghouse, USA) Designer and Production Superintendent for the manufacture of EHV Transformers, Gapped-Core Shunt Reactors. I was trained in Westinghouse Electric Corporation, Pittsburgh, USA and Westinghouse Canada Ltd., Hamilton Canada, 1981
- Assistant Engineer (1975-1977) in the Auto-maintenance section of a major truck manufacturing company: Tata Engineering and Locomotive Company Ltd. (TELCO), India (previously in collaboration with Daimler Benz) now called as TATA Motors, India
- **Books and Book Chapters:** -
  - 1) Co-author: Multitarget-Multisensor Tracking: Applications and Advances, Vol. II, Edited by Y. Bar-Shalom, Artech House, 1991.
  - 2) Transformers: Theory, Design and Practice with Practical Applications: New and Improved look at Transformers with emphasis on partial discharge, core designs ... finite element analysis and 18-slot designs - Paperback (Aug. 8, 2010) by Hemchandra Shertukde, VDM-Mueller. ISBN # 978-3-639-25244-6

- 3) Tracking of Crossing Targets with Passive Sensors: Tracking of Crossing Targets Using Forward Looking Infrared Red Sensors as Passive sensors and "Track-Before ... Detect (TBD)" Methodology (German Edition) - Paperback (Sept. 3, 2010) by Hemchandra Shertukde, VDM Mueller. ISBN # 978-3-639-29119-3
- 4) Book Chapter # 10 with Dr. David Buckmaster; on Transformers related to Wind and Solar Energy edited by Mr. Jim Harlow, CRC Press, Taylor Francis Publishers, published in the Summer of 2012 (Publisher Ms. Nora Konopka), ISBN # 978-1-4309-5629-1
- 5) Hemchandra M. Shertukde, "Distributed Photo Voltaic (DPV) Grid Transformers, CRC Press, Taylor and Francis Publishers (Publisher Ms. Nora Konopka), March 28, 2014, ISBN # 978-1-4665-0581-0
- 6) H. M. Shertukde, " Digital Control Applications illustrated with Matlab", in preparation to be submitted for publication to CRC Press, Taylor and Francis Company, Boca Raton, Florida (K 23132), to be published in February of 2015 (see: [www.amazon.com](http://www.amazon.com) or [www.crcpress.com](http://www.crcpress.com))
- 7) H. M. Shertukde, " Digital Signal Processing Methodologies Applied to passive Structural Integrity Evaluation", in preparation to be submitted for publication to CRC Press, Taylor and Francis Company, Boca Raton, Florida, Fall 2015.
- Collection Editor/Editor for Momentum Press for a series of 20 books in the 'Electrical Power' field. See: [www.momentumpress.net](http://www.momentumpress.net) for more details, look for Editors, Collection Editors drop down in the menu.