

## BIODATA

<b>Name</b>	Dr.Hardikkumar Ashokkumar Shah
<b>Education Qualification</b>	Ph.D (Faculty of Tech.& Engg. M.S. University of Baroda) M.E. (Faculty of Tech. & Engg. M.S.University of Baroda) B.E. (B.V.M.Engg.College S.P.University,V.V.Nagar)
<b>Total Experience</b>	15 Years
<b>Designation</b>	Associate Professor, Electrical Engineering Deptt. A.D.Patel Institute of Technology (A Charutar Vidhya Mandal Institute,V.V.Nagar) New V.V.Nagar-388121,Gujarat,India
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<b>Specialization Areas</b>	Modern Control Systems,Power Electronics based Controller design for Electrical systems, Artificial Intelligence based controller, Electrical Machines
<b>Memberships in professional groups</b>	Life Member of Indian Society for Technical Education (ISTE), IEEE Member Life Member of ADIT Alumni Association

### Professional Enhancement Work :-

- A. Recognized as Ph. D. Supervisor in Gujarat Technological University(GTU): One Ph.D. scholar is registered for Ph.D. Programme in Gujarat Technological University , Gandhinagar in 2019.
- B. Research Paper Publications
  1. H. A. Shah,V. C.Pandya, U. N. Parmar (2018). Design of push pull micro inverter for small scale applications. *International Journal of Current Engineering and Scientific Research (IJCESR)*,ISSN (Print): 2393-8374 (On line): 2394-0697,Volume 5(3), 13-17.
  2. H. A. Shah,V.C.Pandya, U. N. Parmar (2017). Design of Forward Inverter for Small scale Applications. *International Journal of Current Engineering and Scientific Research (IJCESR)*,ISSN (Print): 2393-8374 (On line): 2394-0697, Volume 4(6),109-112.
  3. H. A.Shah,S.K.Shah ,R M.Patel (2015). Signal processing analysis of DSP based PWM generation for high switching frequency voltage source inverter.*World Journal of Engineering ISSN: 1708-5284(scopus index) ,Volume 12(5),499-506*
  4. H. A.Shah S.K.Shah V.C.Pandya (2015). DSP based Pulse Generation for Induction Motor Speed Control. *International Journal of Computer Applications ISSN 0975 – 8887,Volume 122(14),1-5.*

5. H. A.Shah S.K.Shah A.D.Patel (2014). Development of Real time controller of a Single Machine Infinite Bus System with PSS. *IPASJ International Journal of Electrical Engineering (IJEE)*ISSN 2321- 600X ,Volume 2(9),36-42.
6. H.A.Shah S.K.Shah A.D.Patel (2014) Sliding Mode based D.C.Motor Position Control using Multirate Output Feed back Approach. *International Journal of Electronics Communications and Electrical Engineering*,ISSN 2277- 7040.Volume 4(4),12-22.
7. H.A.Shah K.J.Chudasma B.M.Patel (2013). Simulation of Single Phase Inverter using PSIM Software for Solar P.V. System give Constant Output Voltage at Different Solar Radiation. *International Journal of Emerging Trends in Electrical and Electronics (IJETEE)*, ISSN 2320-9569.Volume-4(1),26-31.
8. H. A.Shah S.K.Shah A. D.Patel (2013). Design and Analysis of Switched Multiple Model Adaptive Control for Local Controllers. *International Journal of Engineering Associates* ISSN 2320-0804.Volume 1(4), 164-168.
9. H.A.Shah K.J.Chudasma B.M.Patel (2012). Practical Simulation of Power System Protection Laboratory Experiments using Construction-wise classified Relays. *MIT International Journal of Electrical and Instrumentation Engineering* ,ISSN 2230-7656.Volume 2(1),14-18.
10. H.A.Shah K.Y.Dave B.U.kansara C.R.Mehta (2010). A Novel Approach of Speech Compression Using covariance method. *International Journal of Emerging Technologies and Applications in Engineering, Technologies and Sciences (IJ-ETAETS)*ISSN 0974-3588.Volume 3(1),216-221.
11. H. A.Shah M.N.Sinha A.M.Patel (2007).Performance Analysis of a single phase Induction motor using MATLAB. *Journal of Engineering & Technology*, Sardar Patel University Dec 2007.Volume 20,73-75

C. Papers presented in conferences

1. H.A.Shah ,S.K.Shah ,R.M. Patel (2015). DSP based PWM Generation for High switching Frequency Voltage Source Inverter, 4th IEEE International Conference on Communication and Signal Processing ICCS P'15, Tamilnadu, India, 2-4 April 2015. Tamilnadu ,India:IEEE
2. H.A.Shah,S.K.Shah,A.D.Patel (2015). Design of fuzzy logic power system stabilizers in a multimachine power system using Particle swarm optimization based optimal control algorithm, International Conference on Computing, Communication, Electrical, Electronics, Devices and Signal Processing (CCEEDS) – 2015, Vijaywada,Andhra Pradesh ,India,28th -30th March 2015. Andhra Pradesh :Sri sunflower college of Engineering and Technology,A.P.
3. H.A.Shah,S.K.Shah,A.D.Patel (2015). Design and Implementation of Multi segment SMC for Induction Motor drive using MATLAB, International Conference on Computing, Communication, Electrical, Electronics, Devices and Signal Processing (CCEEDS) – 2015, Vijaywada,Andhra Pradesh ,India,28th -30th March 2015. Andhra Pradesh :Sri sunflower college of Engineering and Technology,A.P.

4. H.A.Shah,S.K.Shah,A.D.Patel,R.M.Patel(2014). Controller Design via Sliding Mode Control Approach of Induction Motor – A Survey.Forth International conference on Advanced Computing & Communication Technologies ,Rohtak, India ,8-9 Feb 2014.Rohtak :IEEE
5. H. A Shah,S.K.Shah,A.D.Patel (2014).Improvement of Transient stability of SMIB system using Fuzzy & ANFIS based STATCOM damping Stabilizer. National Conference Target Technologies in computing, Automation and Communication, Vadodara, India,23 March 2014,Vadodara: IETE & IE (I) Vadodara Local center Vadodara ,Gujarat,India
6. H.A.Shah,C.R.Mehta,B.U. Kansara,K.Y.Dave (2009).A Novel Approach of Speech Compression Using ACM. Advance Embedded Network Processing & Communication (ACNPC-2009) conference Vadodara.4Jan2009:IETE and IE(I) Local Centre Vadodara ,Gujarat,India
7. H.A.Shah ,C.R.Mehta,B.U.Kansara “Recent Trends In Speed Control Of Brush Less D.C. Motor (BlDc)”at National conference REMES 2008 organized by Charotar Institute of Technology, Changa,Gujarat,India (12 Sep 2008)
8. H.A.Shah ,C.R.Mehta,B.U.Kansara “An Approach To Transient Stability Analysis Of Machines In Interconnected Power System”at National conference REMES 2008 organized by Charotar Institute of Technology, Changa,Gujarat,India (12 Sep 2008)
9. H.A.Shah,U.V.Mehta (2005), ANN Based Active Noise Cancellation Using Generalized Radial Basis Function, in 36<sup>th</sup> Mid term symposium & Exhibition Efcos-05 organized by IETE New Delhi at IISC Bangalore.

D. Conferences attended and sessions chaired

- 22<sup>nd</sup> ISTE State Annual Faculty Convention and National Conference on “Engineering Innovation for Social and Environmental Development on 30-12-17 at A.D.Patel Institute of Technology,New V.V.Nagar
- Multi disciplinary International conference GTU-ICON-2019 organized by Gujarat Technological University from 14-03-19 to 16-03-19 at GTU, Chandkheda.

E. Invitational lectures

- Coordinator of the ISTE sponsored Expert Lecture on “Modelling of Electrical Equipment & Unsymmetrical Faults in Power system “on 7<sup>th</sup> Oct 2013 by Prof.Nilay Patel (2013)
- Coordinator of the ISTE sponsored Expert Lecture on “Overview of Turn Key Project” on 14 th Oct 2014 by Mr.Hardik Rupareliya (2014)
- Organize the Expert Lecture on “ Electrical Machines “ for the students on 7-7-2017(2017) by Mr.Sanjeev Reddy (IIT Delhi & Ex-BARC Scientist)
- Seminar on “Career Orientation Program” dated 12-08-2016 by ICE Gate Academy

F. Short-term training programme (or MDPs) organised or lectures delivered

S.N.	Topic	Date	Details
1	Industrial Electric & Connection planning	11-08-17	EDP students Programme on "Entrepreneurship Development" at A.D.Patel Institute of Technology, New V.V.Nagar
2	Earthing & Electric Connection	07-08-16	EDI Gandhinagar sponsored 4 week Workshop on "Entrepreneurship Development" at A.D.Patel Institute of Technology, New V.V.Nagar
3	AC Machines	01-05-15	G.H.Patel College of Engineering, V.V.Nagar
4	Electricity & LT/HT connection	04-01-14	Entrepreneur Development Cell-2014 A.D.Patel Institute of Technology, New V.V.Nagar

G. Participation in professional development workshops/STTPs/FDPs/Seminars

S.N.	Topic	Days	Venue
01	Microcontroller and its Applications	09-09-04 to 15-09-04	Birla Vishvakarmra Mahavidyalaya, Vallabh Vidyanagar.
02	National Seminar on Latest Trends in Communication Systems and Technology-2004	13-03-04	A.D.Patel institute of Technology, New Vallabh Vidyanagar.
03	32 <sup>nd</sup> State Science-Maths Exhibition 2004-05	03-01-05 to 06-01-05	Gujarat Science city, sola, Ahmedabad.
04	Artificial Intelligence: A Modern Approach".	02-05-05 to 07-05-05	Sarvajanik College of Engineering & Technology, Surat.
05	Soft Computing	22-05-06 to 26-05-06	A.D.Patel institute of Technology, New Vallabh Vidyanagar.
06	One day Workshop on "Getting Mileage Through Industrial Tours and Visits" Sponsored By : ISTE Chapter ADIT jointly with Electrical Engg.Dept	14-09-06	A.D.Patel institute of Technology, New Vallabh Vidyanagar.
07	One day Workshop on "Enhancing Students Satisfaction." Sponsored By : ISTE Chapter ADIT jointly with Electrical Engg.Dept	29-09-06	A.D.Patel institute of Technology, New Vallabh Vidyanagar.

08	Recent trends in Control	11-12-06 to 25-12-06	Dharamsing Desai Universtiy,Nadiad
09	Electrical equipment Testing by STANDARDS	20 -01-07	Nirma University, Ahmedabad
10	One day Workshop on " Energy conservation awareness"	26 -02-07	A.D.Patel institute of Technology, New Vallabh Vidyanagar.
11	One day Workshop on "Innovative Laboratory Practices"	08 -08-07	A.D.Patel institute of Technology, New Vallabh Vidyanagar.
12	ISTE Chapter ADIT sponsored & EE dept organized three days workshop on "Training Program for MIPOWER Software - A step to Quality Education"	06-09-07 to 08-09-07	A.D.Patel institute of Technology, New Vallabh Vidyanagar.
13	12 <sup>th</sup> ISTE Gujarat state convention and one day symposium on " Excellence in Technical Education through Innovation"	20-10-08	Birla Vishvakarmra Mahavidyalaya, Vallabh Vidyanagar.
14	One day symposium on "Gujarat Technological University Prospects & Retrospect at A.D.I.T	23-02-08	A.D.Patel institute of Technology, New Vallabh Vidyanagar.
15	Recent advances in power systems	04-04-08	A.D.Patel institute of Technology, New Vallabh Vidyanagar
16	One week workshop on " Advanced Engineering Optimization through Intelligent techniques"	30-06-08 to 04-07-08	SVNIT, Surat
17	One day ISTE Regional seminar on "XXI Century : Priorities in Technical and Higher Education"	03-08-11	A.D.Patel institute of Technology, New Vallabh Vidyanagar
18	CEPT sponsored Modular Training Programme on Advanced Power System-I	12-09-11 to 14-09-11	SVIT,Vasad
19	NI Labview and Applications	12-09-12 to 14-09-12	A.D.Patel institute of Technology, New Vallabh Vidyanagar
20	Faculty Development Programme on " Training on Patent Searching & Analysis Report (PSAR) Generation	28-09-13	MBICCT,New V.V.Nagar
21	International workshop on Sensor Network and Wireless Communication	9-10-13 to 11-10-13	A.D.Patel institute of Technology, New Vallabh Vidyanagar

22	19 <sup>th</sup> ISTE ANNUAL GUJARAT STATE CONVENTION & SEMINAR On "Shaping Technical Education to meet the challenges beyond 2020"	01-1-15	L.D.College of Engineering,Ahmedabad
23	One Day Workshop on "Energy Conservation Awareness"	22-07-15	A.D.Patel institute of Technology, New Vallabh Vidyanagar
24	One Day workshop on "Automation using Programmable Logic Controller"	08-08-15	A.D.Patel institute of Technology, New Vallabh Vidyanagar
25	International Conclave on Higher Education : Quality, Governance and Innovation	18-10-16	Mahatma Mandir, Gandhinagar
26	Faculty Development Programme on "Entrepreneurship Development"	18-12-17 to 30-12-17	A.D.Patel institute of Technology, New Vallabh Vidyanagar
27	22 <sup>nd</sup> ISTE State Annual Faculty Convention and National Conference on "Engineering Innovation for Social and Environmental Development	30-12-17	A.D.Patel institute of Technology, New Vallabh Vidyanagar
28	Brainstorming session on "How to identify real world technical problem?"	27-06-18	A.D.Patel Instittue of Technology, New V.V.Nagar

#### H. Special Achievements

- Letter of Appreciation from the Institute/Management for Second highest Academic Audit Point Score.
- Best conference paper award for the paper titled "A Novel Approach of Speech Compression Using ACM "in Advance Embedded Network Processing & Communication (ACNPC-2009 organized by IETE and IE(I).
- I have guided the 2<sup>nd</sup> year EE students for their project named "Working Model Of Thermal Power Plant" which won the first prize in the 7<sup>th</sup> annual ISTE Convention, which concluded in OCT 2004 at BBIT, VV Nagger.
- The above project was also selected in the 32<sup>nd</sup> state level Science and Maths Exhibition held at Science city, Ahmedabad during 3<sup>rd</sup> Jan-6<sup>th</sup> Jan 2005 and various dignities like his Excellency Hon President of India Dr APJ Abdul Kalam, and Chief Minister of Gujarat Hon. Shri Narendra Modi have visited the site.