

1. **Name:** Michael G. Giesselmann
2. **Education – degree, discipline, institution, year**
 Dr. Ing., EE (Ph.D.), Technical University of Darmstadt, Germany, 1986
 Dipl. Ing., EE (M.S.), Technical University of Darmstadt, Germany, 1981
3. **Academic experience – institution, rank, title**

Professor & Chair,	Texas Tech University, Lubbock, Texas, full time	2010-2021
Prof. & Assoc. Chair,	Texas Tech University, Lubbock, Texas, full time	2008-2010
Professor,	Texas Tech University, Lubbock, Texas, full time	2002-present
Associate Professor,	Texas Tech University, Lubbock, Texas, full time	1992-2002
Assistant Professor,	Texas Tech University, Lubbock, Texas, full time	1986-1992
4. **Non-academic experience** – None
5. **Certifications or professional registrations**
 Licensed Professional Engineer (P.E.) in the State of Texas, (86141)
6. **Current membership in professional organizations**
 Life Senior Member of the Institute of Electrical and Electronics Engineers (IEEE)
 Eminent Engineer & Chief Faculty advisor of Tau Beta Pi (Engineering Honor Society)
7. **Honors and awards**
 Halliburton Award for excellence in Teaching, 1988
 Ex Students Association "New Faculty Award", 1990
 "Outstanding Faculty 1991" of the EE Department
 Halliburton Award for excellence in Teaching, 1992
 Charles L. Burford Faculty Award for Excellence in undergraduate Teaching, 1994
 President's Excellence in Teaching Award, 1995
 Charter Member and of the TTU Teaching Academy, 1997
 "Outstanding Professor Award" Students of the ECE Department, 2000
 "Outstanding Faculty" Students of the TTU ECE Department, 2003
 Charles L. Burford Faculty Award, sponsored by Abell-Hanger Foundation, 2004
 Halliburton Award for Excellence in Undergraduate Teaching, 2008
 Distinguished Resource Faculty Electric Energy Systems, Research & Education, 2010
8. **Service activities (within and outside of the institution)**
 Served as Department Chair of the TTU ECE Department 2010-2021
 Served as Graduate Advisor and Chair of the Graduate Committee
 Serving as ABET Program Evaluator for Electrical & Computer Engineering programs
 Served as General Chair of the 2003 IEEE International Pulsed Power Conference
 Served as Member of the TTU Graduate Council
 Served on the Undergrad Committee; Circuits & Electronics, Labs & Digital systems
 Served as member of the IEEE-IAS Industrial Drives and Electric Machines Committee
 Taught FE (Fundamentals of Engineering) review courses
 Extensive peer-review of Conference and Transaction papers and research proposals
 Served on the Faculty Senate of Texas Tech University

9. ***Most important publications and presentations from the past five years:***

- Michael Giesselmann, Computer Simulation of Power Electronics and Motor Drives, Power Electronics Handbook, 4th ed., edited by Muhammad H. Rashid, published 2018, Pages 1403-1421, Elsevier, ISBN: 978-0-12-811407-0 <https://www.sciencedirect.com/science/article/pii/B9780128114070000490>
- Vishwajit Roy, Subrina Sultana Noureen, Stephen B Bayne, Argenis Bilbao, Michael Giesselmann, "Event Detection From PMU Generated Big Data using R Programming", 2018 IEEE Conference on Technologies for Sustainability, Long Beach, CA, 11-13 Nov. 2018, DOI: 10.1109/SusTech.2018.8671342.
- Michael Giesselmann, Vishwajit Roy, "Modeling of Power Supplies for Power Modulators with LTspice", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 26, Issue 2, 4/2019, Pages 508-514.
- Michael Giesselmann, Saeed Daneshvardehnavi, "LT-Spice Model for Induction Generators with Self-Excitation", 2020 IEEE Electrical Insulation Conference (EIC), Knoxville, TN, USA, USA, Pages 249-252.
- Cesar Negri, Saeed Daneshvardehnavi, Michael Giesselmann, "Universal Model of Pulsed Alternators using LTspice", IEEE Transactions on Plasma Science, 48 (10), 3435-3442.
- S Daneshvardehnavi, CA Negri, KEK Schmitt, S Bayne, M Giesselmann "A case study for connecting bidirectional PEV station for reactive power support to the GLEAMM prototype Microgrid", 2021 IEEE Green Technologies Conference (GreenTech), 19-25, 2021.
- S DaneshvarDehnavi, C Negri, S Bayne, M Giesselmann, "Dynamic Voltage Restorer (DVR) with a novel robust Control Strategy", 2021/4/13, ISA Transactions, Elsevier.
- V. Roy, SS Noureen, S Atique, S. Bayne, M. Giesselmann, "Intrusion Detection from Synchrophasor Data propagation using Cyber Physical Platform", 2021 IEEE Green Technologies Conference (GreenTech), 1-5, 2021.
- Saeed Daneshvar Dehnavi, Cesar A Negri, Michael G Giesselmann, Stephen B Bayne, Bruce Wollenberg, "Can 100% Renewable Power System be Successfully Built?", 2021/6/7, Renewable Energy, Pergamon Press.
- A Balal, M. Giesselmann, "Demand Side Management and Economic Analysis Using Battery Storage System (BSS) and Solar Energy", 2021 IEEE 4th International Conference on Power and Energy Applications.
- Cesar A Negri, Saeed Daneshvardehnavi, Konrad EK Schmitt, Ali Esmaeel Nezhad, Pedro HJ Nardelli, Stephen Bayne, Michael Giesselmann, "Centralized Control Topology for PV Farms Shading Detection and GMPP Searching Restarting Condition", IEEE Access, Volume 10, Page(s): 28991 - 29008, March 10, 2022, DOI: 10.1109/ACCESS.2022.3158739.

10. ***Briefly list the most recent professional development activities***

- Attended 2022 International Power Modulator and High Voltage Conference (IPMHVC), Knoxville, TN, June 19 - 22, 2022.
- Attended ECEDHA Electrical & Computer Engineering Department Heads Association Annual Meeting, Tucson, AZ, March 22 - 25, 2019.