PRAIRIE VIEW A&M UNIVERSITY	**Curriculum Vitae**

Faculty Name:	**Dr. John H. Fuller, P.E.**	**Work Address:**	P.O. Box 519; MS 1060 Prairie View, TX 77446
Position Title:	Professor and Texas A&M System Regents Professor		
Office Location:	Electrical Engineering Building Rm 344		
Office Phone:	936-261-9923		
Email Address:	jhfuller@pvamu.edu		

Education:	**Degree and Area of Study**	**Institution Name**	**Degree Date**
	PhD Electrical Engineering	University of Missouri	May 1977
	MS Electrical Engineering	University of Missouri	May 1974
	BS Electrical Engineering	Prairie View A&M University	Dec. 1969

Teaching Experience	**Position Title**	**Institution Name**	**Position Dates** (Beginning and End)
	Teaching Assistant	University of Missouri-Columbia	Sept. 1974 – May 1977
	Associate Professor and Department Head	Prairie View A&M University	Sept 1974 – Sept 1995
	Professor- Electrical Engineering	Prairie View A&M University	Sept 1995 - present
	Interim Dean- College of Engineering	Prairie View A&M University	June 1995 – May 1997
	Interim Department Head- Civil Engineering	Prairie View A&M University	Jan – July 2004
	Graduate Coordinator – Department of Electrical and Computer Engineering	Prairie View A&M University	Sept 2008 – Jan 2015

Professional Publications:	
	Augustine Ajuzie, John Fuller, Yangpeng Zhang, Warsame Ali, Jian Zhang, "Network-Induced Delay Compensation with Digital Redesigned PAM/PWM Controller", 2012 International Conference on Power Systems Operation and Planning, January 15-19, 2012 jomo Kenyatta University of Agriculture and Technology Nairobi, Kenya.
	Babajide Kareem, Warsame Ali, Dhadesugoor Vaman, John Fuller, Penrose Cofie, "Dynamic Movement of Reference Nodes for Improved Tracking Accuracy of Indoor Situational Awareness Systems", International Congress for Global Science and Technology (ICGST) International Conference on Computer Science and Engineering, CSE-Dubai-12". July 16- 18, 2012, Dubai, UAE.
	Jian Zhang, Warsame Ali, Youngpeng Zhang, Leang-san Shieh, John Fuller, "System Modeling for Nonsmooth Dynamic Systems with Approximated Scalar Sign Function", International Congress for Global Science and Technology (ICGST) International Conference on Computer Science and Engineering, CSEDubai-12". July 16 - 18, 2012, Dubai, UAE

	Joseph Kampto, Lijun Qian, John Fuller, John Attia, Yi Qian ," Key Distribution and Management for Power Aggregation and Accountability in Advance Metering Infrastructure", IEEE SmartGridComm 2012 Symposium-Security, November 5-8 2012, Tainan City, Taiwan.
	Lijun Qian, John Fuller, Ing Chang, "Quickest Detection of Nuclear Radiation using a Sensor Network", IEEE Technologies for Homeland Security 2012, November 2012, Boston, Massachusetts.

	Samson Olewe, Dr. Warsame H. Ali, Dr. John Attia, John Fuller, and Penrose Cofie, " A Three Phase Induction Motor Integral Plus State Feedback Optimal Controller Based on Vector Control Algorithm", International Congress for Global Science and Technology (ICGST) International Conference on Computer Science and Engineering, CSE-Dubai-12". July 16 - 18, 2012, Dubai, UAE.
	L. Qian, J. Fuller, Cheslan Simpson (2013), "A Community Sensing Framework for Threat Detection in Metropolitan Area", IEEE Conference on Homeland Security Technologies, November 11-14, 2013, Westin Hotel 70 Third Avenue, Waltham, MA 02154 US.
	Warsame H. Ali, Yongpeng Zhang, Jian Zhang, John H. Fuller, Leang-San Shieh, " Anti-Windup Digital Control Design for Time-Delayed Analog Nonlinear Systems Using Approximated Scalar Sign Function", Circuit and Systems, 2014, 5, 27-37.
	Mamatha Gowda, Warsame H. Ali, Penrose Cofie, John Fuller, " Design and Digital Implementation of Controller for PMSM Using Extended Kalman Filter", Circuit and Systems, 2013, 4, 489-497.
	Vasileios Galanis[1], Warsame H. Ali, Matthew N.O. Sadiku, Olesegun O. dejide , Penrose Cofie , John H. Fuller, "Modeling of Obfuscation for Smart Meter Data Privacy" , Energy and Power Engineering, 2013.
	Mamatha Gowda, Warsame H. Ali,Penrose Cofie, John Fuller, "Design Implementation of Speed Controller Using Extended Kalman Filter for PMSM" International Journal of Engineering Research & Technology, Volume. 3 , Issue. 04 , April - 2014
	Mamatha Gowda, Warsame H. Ali,Penrose Cofie, John Fuller, "Design of a Speed Controller Using Extended Kalman Filter for PMSM" IEEE 57th International Midwest Symposium on Circuits and Systems, 2014
	Emmanuel S. Kolawole, Warsame H. Ali, Penrose Cofie, John Fuller, C. Tolliver, Pamela Obiomon, 'Design and Implementation of Low-Pass, High-Pass and Band-Pass Finite Impulse Response (FIR) Filters Using FPGA,' Circuits and Systems, 2015, 6, 30-48, Published Online February 2015 in SciRes. http://www.scirp.org/journal/cs http://dx.doi.org/10.4236/cs.2015.62004
	"Development of MATLAB Code for Smart Grid Connected Photovoltaic System Including Efficiency Study", by Dr. Warsame H. Ali, Dr. Penrose Cofie, Dr. John H. Fuller, Savitha Lokesh Department of Electrical and Computer Engineering, Prairie View Texas A&M University, Prairie View, TX 77446, USA
	"OPTIMIZATION OF FPGA RESOURCE USAGE IN TODAYS DESIGN AND APPLICATION (A design and implementation of Low Pass, Band Pass and High Pass FIR Filters using FPGA)" by Warsame H. Ali, Emmanuel S. Kolawole, Penrose Cofie, John FullerDepartment of Electrical and Computer Engineering, Prairie View A&M University, Prairie View, Texas

	"Rapid Prototype with Field Gate (A Design and Implementation Of Stepper Motor Using FPGA)", by Warsame H. Ali, Emmanuel S. Kolawole, Pamela Obiomon, John H Fuller, Shukri Ali, Penrose Cofie, Department of Electrical and Computer Engineering, Prairie View A&M University, Prairie View, Texas, Scientific Research, DOI:10.4236/es.2016.78122
	"Performance and Efficiency Simulation Study of a Smart-Grid Connected Photovoltaic System" by Warsame H. Ali, Penrose Cofie, John H. Fuller, Savitha Lokesh, Emmanuel S. Kolawole, Communications and Network, 2017, 9, 275-290 http://www.scirp.org/journal/cn ISSN Online: 1947-3826 ISSN Print: 1949-2421
	"Practical Approaches to Securing an IT Environment", by Emmanuel S. Kolawole, Warsame H. Ali, Cofie Penrose, John C. Fuller, Scientific Research Publishing, Communications and Network, 2017, 9, 275-290, ISSN Online: 1947-3826, ISSN Print: 1949-2421, http://www.scirp.org/journal/cn
	O. Omotere, J. Fuller, L. Qian, and Z. Han (2018). "Spectrum Occupancy Prediction in Coexisting Wireless Systems using Deep Learning", IEEE 88th Vehicular Technology Conference (VTC), Chicago, IL.
	Y. P. Akhare, W. H. Ali, J. H. Fuller, J. O. Attia, "Power Electronics and Drives: Simulation to Implementation in Minutes: A novel implementation tool for power engineers," IEEE Power Electron. Mag., vol. 8, no. 2, pp. 44–53, June 2021, doi:10.1109/MPEL.2021.3057207.
	Y. P. Akhare, W. H. Ali, J. H. Fuller, J. O. Attia, A. Annamalai, P. H. Obiomon, "Novel Model Predictive Control for Performance Analysis of Synchronous Servo Motor Drive," in Proc. 2021 IEEE Green Technologies Conference (Green Tech), pp.253-258, April 2021, doi:10.1109/GreenTech48523.2021.00047
Additional Trainings/Skills:	
	Registered Professional Engineer in the State of Texas
	Fulbright Faculty Fellow (China – Summer 2005)
	Elected Faculty Senator from the College of Engineering for the period 1998-2000. Re-elected for the 2000-2002 period.
	Recognized by the College of Engineering for outstanding contribution to the Solar car project at Prairie View A&M University. Fall 2000
	Outstanding Faculty and Staff Award. July 10, 2003, 29th National Alumni Convention, Arlington, Virginia. Prairie View A&M University National Alumni Association.
	Excellence in Research Award for the 2011-2012 academic year, presented by the Roy G. Perry College of Engineering, Prairie View A&M University, February 18, 2013.
	Excellence in Service Award for the 2011-2012 academic year, presented by the Roy G. Perry College of Engineering, Prairie View A&M University, February 18, 2013.
	Training for Teaching University courses on the Internet and the use of the Zoom interactive video system. Began in March 2020 and lasted until Fall 2020. Sponsored by Prairie View A&M University. All lectures were modified and adapted for use on internet instruction.
	Discussions and presentations with industrial personnel on the installation, teaching and instructional material using the newly installed smart grid laboratory system

Research	
	Enhancing the Electrical Engineering PhD Program Dr. John Fuller, PI, ECE Program Coordinator Dr. Lora Williams, PVAMU Title III Director Department of Education funded support of the Enhancement of the PhD Program in Electrical Engineering with student fellowship support and equipment acquisition assistance. https://www.pvamu.edu/titleiii/current-activities/hbgi/enhancement-of-the-phd-program-in-electrical-engineering-2/ $250,000 2009 - 2010 $750,000 2010 - 2011 $733,154 2011 - 2012 $100,000 2014 - 2015 $98,183 2015 – 2016 $650,688 2016 – 2017 $800,831 2018 - 2019
	A Nationwide Consortium of Universities to Revitalize Electric Power Engineering Education by State-Of-The-Art Laboratories Prairie View A&M University being one of a limited number of Universities offering power courses at the undergraduate level and a concentration power area at the graduate level, was successful in becoming a member of a project team lead by the University of Minnesota (UMN) and funded by the Department of Energy, award number DE-OE0000427. Each participating University received $24,999 over a 3-year period 7/30/2010-7/29/2012 (Incremental funding of $8,333 /year, starting in Fall 2010 to 1) Acquire two of the power electronics laboratory stations or one station of the electric drives laboratory and become familiar with the hardware and experiments 2) Use the hardware and UMN-developed experiments, in our courses as we deem appropriate 3) Modify the UMN experiments as needed for local needs and possibly develop new experiments 4) Disseminate the UMN laboratories and any modified experiments to other regional universities, technical and community colleges.
	NNSA'S MINORITY SERVING INSTITUTION PARTNERSHIP PRGRAM (MSIPP) Formulation of the DOE supported University-Laboratory Consortium for Radionuclide Detection and Analysis (UL-CARDA). Proposal submitted to NNSA by the consortium schools: Alabama A&M, Alcorn, Fisk, Morehouse, Prairie View, Southern Baton Rouge, Southern New Orleans, Los Alamos National Lab and Y-12 National Security Complex. First year award was $72,000 for PVAMU and 0ver $600,000 for the combined consortium effort. A second proposal was submitted to DOE by the consortium in the Summer of 2013 for

	a second year grant of $58,000.

	Consortium objective is to conduct research on nuclear characterization and address the nation's shortage of minority graduate students in the Sciences, Technology, Engineering and Mathematics (STEM) disciplines.
	Principal Investigator: Dr. John Fuller
	Research Topic: Detection and Analysis of Chemical and Radionuclides (UL-CARDA)
	Award Number: DE-NA0001890
	    Funding Period: October 2012 – September 2014 Total Cost: $126,246.80
	Award Number: DE-NA0002683/0008
	    Funding Period: October 2014 – September 2017 Total Cost: $357,238.70
	Award Number: DE-NA0003729
	      Funding Period: October 2017 – September 2018 Total Cost: 137,671.00
	          Final funded year extended to March 2019

	Center of Excellence in Research and Education for Big Military Data Intelligence (CREDIT), Lijun Qian, PI, Yonggao Yang, Lei Huang lhuang, Pamela Obiomon, John Fuller, DOD-Air Force-Research Laboratory – Federal, 17-Apr-2015 - 17-Apr-2020 Sponsor: Department of Defense (DOD), working with the Air Force Research Laboratory Federal Sponsor Award #: FA8750-15-2-0119 Amount: $5,000,000.00 Period of Performance: 17-Apr-2015 - 17-Apr-2020 http://credit.pvamu.edu/people.html PI Lijun Qian liqian@pvamu.edu (936) 261-9908 PVAMU-Center of Excellence in Research & Education Co-PI Yonggao Yang, yoyang@pvamu.edu (936) 261-9884 PVAMU-Computer Science Co-PI Lei Huang, lhuang@pvamu.edu (936) 261-9878 PVAMU-Computer Science Co-PI Pamela Obiomon, phobiomon@pvamu.edu (936) 261-9907 PVAMU-Electrical Engineering Co-PI John Fuller, jhfuller@pvamu.edu (936) 261-9923 PVAMU-Electrical Engineering Co-PI Xiangfang Li xili@pvamu.edu (936) 261-9918 PVAMU-Electrical Engineering Mission: Accelerate research and education in predictive analytics for science and engineering to transform our ability to effectively address and solve many complex problems posed by big data. Train next generation of data scientists and engineers
	Nuclear Survivability Testing and Characterization of Non-volatile Memory Devices. Funded by National Security Agency (NSA), September 1990 – August 1991, Dr. John Fuller, PI. Investigation into the susceptibility of Read Only Memories (ROM) to nuclear radiation.