



Dr. Behbood Ben Zoghi, PhD, P.E.

*Victor H. Thompson Professor of Electronic Systems
Director, Master of Engineering Technical Management
Director, RFID/Sensor Laboratory*

Accomplished university professor and administrator with considerable experience leading and managing in the academic setting for over twenty years. Background in real world engineering experiences in high-tech industries. Dynamic, entrepreneurial, visionary. Developed competitive new programs partnerships. Strong leader, strategic thinker and effective team builder.

CITIZENSHIP: United States of America
EXPERT WITNESS: RFID/Sensor Network (Hardware and system design)
EDUCATION:

Ph.D. Bioengineering/Electrical Engineering, Texas A&M University
Dissertation: "A Novel Optically-Based Approach to Intracranial Pressure Measurement"
M.S. Electrical Engineering, The Ohio State University, Ohio
B.S. Electrical Engineering, Seattle University, Washington
P.E. Registered Professional Engineer, Certificate #73652, State of Texas

Certificate: Developing Leadership through Emotional Intelligence, Case Western Reserve University, 2002-2004
Certificate: Multi-Health System (MHS) Emotional Quotient (EQ-i) Certified Instructor, 2012

PROFESSIONAL EXPERIENCE:

Educational

March 1999 – Present	Full Professor (Tenured)
September 2016-Present	Director, Master of Engineering Technical Management (METM)
September 2009 – Present	Victor H. Thompson Endowed Chair Professorship Holder
April 2015 – August 2016	TEES Assistant Agency Director for the Office of Corporate Relations
June 2008 – 2013	Director of RFID Oil & Gas Solution group Consortium, http://rfid.tamu.edu
August 2005 – Present	Director of RFID/Sensor Lab
January 2001 – March 2005	Program Coordinator of Industrial Distribution, Director of Thomas and Joan Read Center, Leonard and Valerie Bruce Leadership Chair
September 2001 – March 2003	Program Director of the Master in Distribution
January 2001 – January 2002	Victor H. Thompson Endowed Professorship
April 1999 – October 2000	Texas A&M University, College Station, Texas <i>Associate Department Head</i>

August 1996 – August 2001	Semiconductor Systems Laboratory, Texas A&M University <i>Director</i>
September 1993 – August 1999	Texas A&M University, College Station, Texas <i>Associate Professor (Tenured)</i>
August 1987 – August 1993	Texas A&M University, College Station, Texas <i>Assistant Professor</i>
January 1987 – August 1987	Franklin University, Columbus, Ohio <i>Adjunct Professor</i>
September 1986 – June 1987	Columbus Technical Institute, Columbus, Ohio <i>Instructor</i>
September 1986 – June 1987	The Ohio State University, Columbus, Ohio <i>Lecturer</i>
September 1984 – June 1986	The Ohio State University, Columbus, Ohio <i>Teaching Assistant</i>

Industrial

May 2009 – August 2009	South Texas Nuclear Project, Bay City, TX <i>Industry Faculty Fellow</i>
June 1999 – August 1999	Applied Materials, Etch Division, Santa Clara, CA <i>Industry Faculty Fellow</i>
June 1997 – September 1997	Applied Materials, New Product Division, Santa Clara, CA <i>Industry Faculty Fellow</i>
June 1996 – September 1996	Applied Materials, Manufacturing Division, Santa Clara, CA <i>Industry Faculty Fellow</i>
January 1991 – August 1991	Canberra on the Los Alamos Project <i>Design Engineer</i>
June 1988 – August 1988	Texas Transportation Institute, College Station, Texas <i>Design Engineer</i>
October 1982 – January 1984	ElectroScience Laboratory, Columbus, Ohio <i>Research Associate</i>

BOOKS:

1. Zoghi, B., "Engineering Leadership," ISBN 0-13-081530-6, DiggyPOD, November 2012.
2. Zhan, W., McDermott, M., Zoghi, B., and Hasan, M., "Modeling, simulation, and analysis for battery electric vehicles," Machine Learning and Systems Engineering, S.-I. Ao *et al.* (eds.), Lecture Notes in Electrical Engineering, Vol. 68, Springer, 2010, pp. 227-241. (Book Chapter)
3. Zoghi, B. and et al., "RFID Applications and Cases," published by ICFAI Publishing Company, ISBN #81-314-0418-8, December 2006.
4. Octavio Carranza, Zoghi, B., et al., "Logística: Mejores Prácticas en Latinoamérica", Publisher Thomson Custom Publishing, (#970-686-411-3), spring 2005.
5. Zoghi, B., Jennings, D. "Fundamentals of Distribution Profitability", Thomson Custom Publishing, (ISBN 0-759-3323-1) 2005.
6. Zoghi, B., Kim, S., "Global Distribution- A Study of Distribution in Mexico", Thomson Custom Publishing, (**Book:** ISBN 0-759-34640-2) 2005.

7. Kane-Sellers, L., Koerber-Walker, J., Zoghi, B., "Book: Connecting Resources: A Primer for Electronics Distribution", Thomson Custom Publishing, (ISBN 0-759-33249-5), Thomson Custom Publishing, 2004.
8. Lyster, T., Zoghi, B., "System Automation Concepts & Applications," Thomson Custom Publishing, (ISBN 0-759-3323-1) 2003.
9. Ishfaq, R., Zoghi, B., "Industrial Electricity," Thomson Custom Publishing, (ISBN 0-759-3408-9) 2003.

RESEARCH: (Selected 40 out of 60)

1. Silver Eagle, "RFID Roadmap – A Complete Supply Chain from the breery to the distributor warehouse, Seamless real-time flow of information," PI – Zoghi, Ben, Co-PIs: Robertson, I., Catchings, J., Fall 2018. **Phase I \$15,000 (funded), Phase II is under preparation, \$550,000.**
2. Saint-Gobain NorPro, "RFID study, design, and implementation for Factory 4.0," PI – Zoghi, Ben, Co-PIs: Robertson, I., Catchings, J., Summer 2018. **Phase I \$15,000 (funded), Fall 2018 Phase II is under evaluation, \$250,000.**
3. Texas A&M Triads for Transformation (T3), "Exploring Emotional Intelligence And Its Impact On Identity Formation Of Graduate Students In Engine" PI – Zoghi, Ben, Co-PIs: Craig, Cheryl; Raven, Sara., Fall 2018. **Amount requested is \$30,000.**
4. Axis Pipe & Tubing Inc. "Phase II: Integration of Computer Vision Based Crack Detection robotics arm inline with the existing processes," PI: X. Song, Co-PIs, B. Zoghi and A. Fang, June 2018 – August 2020. **Amount funded \$89,463.**
5. Texas General Land Office, "developing a training center with a focus on using advance robotic technology for first responders," PI: Zoghi, B. Co-PIs: Petty, R., and a few more (not finalized) **Amount requested \$4000,000.00 (Not funded)**
6. National Institute of Health (NIH), PIs: Xuemei Zhu, Marcia Ory, Chanam Lee, Mark Benden, "Healthy Workplaces; Multi-scale Environmental Interventions to Improve Employee Health and Productivity," **Amount Requested: \$3,584,003, 2018-2023. My effort: 1 month/year in years 1, 2 and 3; 0.6 months/yr. in years 4 and 5. (Not funded)**
7. Texas A&M Triads for Transformation (T3), "B.Massive multi-path routing simulation for traffic modeling" Co-PIs: Berkolaiko, G., Birt, A., Zoghi, Spring 2018. **Amount requested is \$100,000.** The aim of this project is to adapt and modify routing algorithms to speed up traffic simulation models. The collaborative research will be conducted with co-researchers at Texas Transportation Institute with the view of attracting further funding from government (NSF, Federal DoT, EPA, Department of Energy), state (Departments of Transportation and Environments) and industry (e.g., Exxon Mobil) sources. (Not funded)
8. Axis Pipe & Tubing Inc. "Computer Vision Based Crack Detection Process Automation," PI: X. Song, Co-PIs, B. Zoghi and A. Fang, Jan, 2017-April 2018, \$99,645.
9. Axis Pipe Manufacturing Company "Development of Graphical User Interface for Tube Mill Tracking Systems," Co-PIs, B. Zoghi, W. Zhan, May 2017-December 2017, \$37,466.
10. Led the Texas A&M engineering team on recruiting industry events/membership (Aerospace, Electronics, Automotive, and Energy sectors) to join the newest and fourteenth member of the nation's network of Manufacturing USA Institutes sponsored by the U.S. Department of Defense (DoD) - the Advanced Robotics Manufacturing (ARM) Institute. This coalition will be a **\$250M public-private investment** intent on creating and deploying robotic technology.
<https://www.defense.gov/News/News-Releases/News-Release-View/Article/1049127/dodannounces-award-of-new-advanced-robotics-manufacturing-arm-innovation-hub-i> , Spring 2016present

11. Texas Department of Transportation, “Advancing Innovative High-Speed Remote-Sensing Highway Infrastructure Assessment Using Emerging Technologies,” PI-Paul Carlson, Total Amount funded \$1,735,671. My section was on Task 3 – Developing & Testing Prototype Technologies for Safety & Operation Infrastructure Inspections, Budget for Task 3 was \$274,003, for 3-5-15 to 8-31-16. (I had two undergrads, one grads for 12 months, and half of my summer salary)
12. NSF-NRT-INFEWS: Food-Energy-Water Nexus Training Laboratory (FEWL), PI: Rabi Mohtar, Co-PIs: Behbood Zoghi, Christodoulos Floudas, Efstratios Pistikopoulos, Kent Portney, and Ronald Kaiser. September 2016-2021. Amount requested not funded \$ 2,055,610.00 (My share \$ 40,124.00.)
13. DOT-PHMSA-Office of Pipeline Safety, Through the Mary Kay O’Connor Process Safety Center, “Radio Frequency Identification (RFID) Smart Coupon for Corrosion Monitoring System in Pipeline Network,” Principal Investigator: S., Mannan, CO-PI: Zoghi, B., October 2015 – September 2017. Amount requested \$300,000.00
14. US Department of Transportation, Through the Mary Kay O’Connor Process Safety Center, “Radio frequency identification (RFID) Smart Corrosion Coupon,” Principal Investigator: S., Mannan, CO-PI: Zoghi, B., June 2013- June 2015. **Amount requested \$ 99,512.00**
15. Completion Rental, Inc., “RFID Inventory Management Systems for Oil & Gas equipment Optimization,” Principal Investigator: Zoghi, B., January 2013- 2014. **Amount requested \$10,000.00**
16. National Science Foundation, “RFID Tracking and Tracing Disaster Victims using,” Principal Investigator: R. Murphy, CO-PI: Zoghi, B., Minson, Matthew, Brown, Susanne, August 2013- August 2015. **Amount requested \$600,000.00 (Not funded)**
17. National Instrument/Texas Instrument, “Smart Badge,” Principal Investigator: Zoghi, B., January 2013 – December 2013. (Support capstone project) **Amount funded \$5,000.00**
18. Tier One Program (TOP) Grant, “Engineering Leadership Institute: Engineering Emotional Intelligence,” Co-PIs: Zoghi, B., Nafukho, F., Cerami, J., August 2012-December 2013 – **Amount requested \$318,460.75 (Not funded)**
19. AiRISTA and Texas Task Force 1, “High value and mission critical asset tracking using RFID (WiFi) technology,” Principal Investigator: Zoghi, B., August 2012-December 2012 - Proposal \$308, 321.00 (Equipment Value) (Phase I - Funded)
20. Motorola, “Golden-i Augmented Reality for construction application,” Principal Investigator: Zoghi, B., September 2011 – August 2012. **Amount funded \$10,000.00**
21. United States Air Force Nuclear Weapons Center, “Nuclear Components monitoring and Tracking using RFID/Wireless Technologies,” Principal Investigator: Shipcom Wireless, CO-PI: Zoghi, B., Ayala, J., (TEES-TCAT) February 2011 – August 2011. Amount requested \$350,000.00 (Not funded)
22. National Science Foundation Engineering Research Center, Principal Investigator: R. Murphy, CO-PI: Langari, R., et al, Zoghi, B., August 2010- August 2015. Amount requested \$18,500,000.00 (Not funded)
23. Creation of a Modular Curriculum in Digital Instrumentation and Control Targeted at the Nuclear Power Generation Industry, Principal Investigator: W. Zhan, CO-PI: Zoghi, B., Porter, J., Morgan, J., Peddicord, K.L, Poston, J., June 2010- June 2011. **Amount requested \$131,115 (Not Funded)**
24. BP, “RFID Enterprise Software Evaluation,” Principal Investigator: B. Zoghi, January 2010– August 2010. **Amount funded \$10,000**
25. Design and Implementation of a Real-Time RFID-Based Inventory Management System for N-Line Traffic Maintenance, N-Line Maintenance, Principal Investigator: B. Zoghi, CO-PI: G. Gaukler, January 2009 – December 2009. **Amount funded \$37,145**

26. RFID testing for radiation/contamination/extreme temperature and security- A three phase projects proposal submitted to South Texas Project, Principal Investigator: B. Zoghi, August 2008 – September 2009 **Amount requested \$125, 000 (Not Funded)**
27. RFID for real-time tracking of modular precast, Tindall Corporation, Principal Investigator: G. Gaukler, CO-PI: B. Zoghi, September 2008 – March 2009, **Amount requested \$79,020 (not Funded)**
28. RFID Cookbook for the Capital Projects Industry, FIATECH, Principal Investigator: B. Zoghi, CO-PI: G. Gaukler, August 2008 – September 2009 **Amount requested \$114,660 (Not Funded)**
29. Creation of a Modular Curriculum in Digital Instrumentation and Control Targeted at the Nuclear Power Generation Industry, Principal Investigator: W. Zhan, CO-PI: Zoghi, B., Porter, J., Morgan, J., Peddicord, K.L, Poston, J., June 2009-2010. **Amount requested 147,807.00 (Not Funded)**
30. Automating the test system for the WL Breaker Production Line, Siemens Energy & Automation, Inc., Principal Investigator: B. Zoghi, January 2008 – December 2008. **Amount funded \$27,680.**
31. Streamlining Integrated Circuit Design Process: Verification and Testing, Integrated Device Technology, Principal Investigator: B. Zoghi, CO-PI: J. Porter, September 2007 to October 2009. **Amount funded \$276,000.**
32. RFID Solution Improves Real-Time Inventory Management and Lowers Costs, North American Precast Concrete, San Antonio, Texas, Principal Investigator: B. Zoghi, January 2007, **Amount requested \$125,000.**
33. Radio Frequency Identification (RFID) for Real-Time Inventory and Maintenance Applications, Association of American Railroads Affiliated Laboratory for Railway Research, Principal Investigator: B. Zoghi, January 2007 – December 2007. **Amount Funded \$25,000.**
34. Design of a Radio Frequency Software Driver, EIS Systems, Principal Investigator: B. Zoghi, January 2007 – August 2007. **Amount Funded \$20,000.**
35. Design of a RFID system Solution for Automated Theft Detection, Hartford Public Library, Principal Investigator: B. Zoghi, December 2006– May 2007. **Amount Funded \$15,000.**
36. Integrated Circuit (IC) design and verification processes, Integrated Device Technology, Principal Investigator: B. Zoghi, CO-PI: Y.K., Jung, August 2006-September 2007. **Amount Funded \$150,000.**
37. Design, Analysis and Testing for the Production RFID-GPS smart Locking System for Cargo Security, Innerloc Systems, Principal Investigator: B. Zoghi, September 2006-December 2006, **Amount Funded \$3,000.**
38. Warehouse Optimization Using Complementary Operational Methods, House of Forgings, Principal Investigator: S. Thompson, Co-Pi, B. Zoghi. December 2005 – August 2006. **Amount Funded: \$12,000.**
39. Photodynamics Inc: “Improvement Methods Via Quality System Solutions”, Co-Principal Investigators: Thompson, S., Zoghi, B., May 2005 – August 2006, **Amount Funded: \$63,000.**
40. Elk, Corporation: “Outsourcing of Manufacturing Management for ELK Corporation”, CoPrincipal Investigators: Thompson, S., Zoghi, B., February 2005 – December 2005, **Amount funded: \$58,000.**
41. Hisco-Motorola: Survival in the Second Automotive Century: Developing Collaborative Value Chain Practices with Strategic Supplier Partners, Co-Principal Investigators: M. Pappu, S. Thompson, B. Zoghi, May 2005-May 2006, **Amount funded: \$10,000**
42. National Wholesales-Distributors: Services ... a Strategic Weapon for Wholesale Distribution, Strategic Business and Pricing Models for services: Principal Investigator: B. Zoghi, Co-Principal Investigators: Barry Lawrence and B. Reynolds, 2004-2005, **Amount funded: \$33,000**
43. Shelter: Continuous Improvement in Effectiveness/Efficiency for Shelter Distribution- Lafayette

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