MD Sarder, Ph.D.

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1.0 EDUCATION

2006 Ph.D., Industrial and Manufacturing Systems Engineering, University of Texas at Arlington, Texas, USA
2001 M.S., Industrial and Manufacturing Engineering, Wichita state University, Kansas, USA
1996 B.S., Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

Certifications and Training

2021 Leadership Certification for Emerging Leaders, June-August, from Harvard University
2014 Executive Certification in Supply Chain Strategy, February – April, from Massachusetts Institute of Technology (MIT)
2011 Material Handling Teachers Institute – Weeklong Workshop, from Material Handling Institute (MHI)
2009 Six-Sigma Quality – Quality Control Training, from Institute of Industrial and Systems Engineers (IISE)
2008 Quality Enhancement Plan – Course Improvement (Pedagogical) Training, from University of Southern Mississippi
2005 Lean Manufacturing – Certification on Lean, from APICS
1996 Statistical Process Control (SPC) – Quality Control Certification, from IEB

2.0 PROFESSIONAL POSITIONS

Academic Positions

Professor & Director (July 2022 – Present)
School of Engineering, Bowling Green State University, Ohio, USA

Professor & Chair (July 2017 – June 2022)
Department of Engineering Technologies, Bowling Green State University, Ohio, USA

Professor & Chair (July 2020 – June 2022)
Department of Visual Communications & Technology Education, Bowling Green State University, Ohio, USA

Associate Professor & Graduate Program Director (August 2012 – July 2017)
Logistics, Trade & Transportation, University of Southern Mississippi (USM), Mississippi, USA

Assistant Director (October 2009 – July 2017)
Center for Logistics, Trade and Transportation (CLTT), USM, Mississippi, USA

Assistant Professor & Program Coordinator (August 2007 – July 2012)
Industrial Engineering & Technology, University of Southern Mississippi (USM), Mississippi, USA

Post-Doctoral Research Fellow (January 2007 – July 2007)
Systems Engineering Research Center (SERC), University of Texas at Arlington, Texas, USA

Non-Academic Positions

Credential Evaluation Consultant (June 2019 – Present)
PARK Evaluations, New York, USA

Distinguished Research Fellow (May 2017 – July 2017)
U.S. Air Force Academy, Colorado Springs, Colorado, USA

Academic Consultant (October 2013 – September 2016)
MESK Management Science Institute, Abu Dhabi, United Arab Emirates

Supply Chain Project Manager (January 1998 – January 1999)
Jams Sweaters Private Ltd. Dhaka, Bangladesh

Production & Quality Control Engineer (May 1997 – December 1997)
Mina Chemical Industries Ltd. Dhaka, Bangladesh

Technical Consultant (January 1996 –May 1997)
J. K. Fashions Ltd. Dhaka, Bangladesh

3.0 LEADERSHIP/ADMINISTRATIVE EXPRIENCE

A. Leadership in Academic Institutions

Director **July 2022 – Present**
School of Engineering, Bowling Green State University, Ohio, USA

Provided strategic vision and operational leadership for all aspects of the School of Engineering (SOE). Responsibilities included all matters related to academic leadership and administration, curriculum, budgeting, facilities, external funding, industry engagement, faculty, staff, and students. The SOE houses two departments led by 2 department chairs, and 11 programs led by 11 program coordinators all report to the school director. The SOE is a one-stop shop for engineering and technology education as it offers a wide array of BS programs including Systems Engineering (SYE), Electronics and Computer Engineering (ECE), Mechanical and Manufacturing Engineering (MME), Robotics Engineering (ROBO), Quality Systems (QS), Engineering Technology (ENGT), Management and Technology (M&T), and Visual Communication Technology (VCT). The SOE also offers three strong graduate programs including a Master of Science in Logistics Systems Engineering (LSE) that blends engineering skills with business skills. Other graduate programs include Master of Technology Management (MTM), Instructional Design and Technology (IDT), and two graduate certifications in QS and IDT. All SOE engineering programs are very hands-on, experiential, and life-long learning focused. The SOE educational offerings are supported by state-of-the-art laboratory facilities, experienced faculty members, and an excellent synergetic partnership with local industries.

Select Tasks and Accomplishments

- Led multi-departments, multi-programs school consisting of over 1,000 students, 25 faculty and staff, and 20 adjuncts with more than $5 million annual budget. Managed day to day operations including **budgeting, scheduling, hiring, faculty and student issues resolution, timely communications, and advocating school interests** among internal and external constituents.
- Spearheaded a substantial structural transformation within the College with direct collaboration with the upper administration, faculty, and industry advisory board. This involved the establishment of a School of Engineering (SOE) and a School of Aviation (SOA) achieved by restructuring the Departments of Engineering Technologies and Visual Communications and Technology Education.

- Led the development and launch of three BS in engineering programs including Robotics Engineering, Mechanical and Manufacturing Engineering, and Electronics and Computer Engineering. This included market analysis, proposal development and presentations to various stakeholders including at the state level, curriculum development, and the development of marketing and promotional materials.
- Developed strategic mission, vision and values for the school and effectively promoted to the internal and external constituents.
- Directed two masters program (LSE and MTM) – admission, outreach, enrollment management, assessment of program outcomes, and coordination with Graduate College, BGSU Online, International Student Services, and International Studies marketing drive.
- Revamped the Industry Advisory Board (IAB) for the school covering four engineering programs and two engineering technology programs. Maintained two additional IABs for Management and Technology, and Visual Communication programs.
- Established and maintained industry engagement for fundraising, in-kind equipment donations, industry sponsored projects, and placing students in Co-op programs.
- Coordinated SOE targeted recruitment plans and attended all the recruitment events including Preview Days, President Day, BEST Robotics, Engineering Showcase Days, Get with the Program, STEM Conferences, and numerous individual meetings with potential students and their families.
- Developed laboratory renovation plan and participated in the building renovation plan to enhance and expand SOE hands-on offerings. Several new laboratories are proposed including AR/VR/AI lab, semiconductor lab, networking lab, and mobile robotics lab.
- Managed school level faculty hiring (6 tenure track, 1 teaching), faculty evaluations including annual Merit Review, annual performance review (APR), enhanced performance review (EPR), and Tenure and Promotion cases.
- Developed master schedule for launching 3 new engineering programs and teaching-out plan for all technology programs.
- Established partnership with several organizations in Panama and created a Study Abroad program titled "International Logistics Experience in Panama" for LSE and SYE programs.
- Managed graduate teaching assistant hiring, renewals, assignment, and performance evaluation.
- Coordinated with the Center to Advanced Manufacturing for industry projects and workforce development activities.
- Facilitated partnership with universities and research institutions and other consortia (MAC, Engineering PLUS, LSMRCE) for research collaboration.
- Established a Center of Excellence (MoU) with Maxbyte to foster an Industry-University partnership.
- Secured an EDA workforce development grant ($665K) and $2.0 million advanced manufacturing equipment from the state of Ohio since 2022 and academic licenses of SIMIO software ($204K) for the students and faculty.
- Directed BEST Robotics competition as the Falcon Hub Director, fundraising for the competition, and secured federal grants to cover robotics kits, tools, and supplies for field construction.

Department Chair **July 2017 – June 2022**
Department of Engineering Technologies, Bowling Green State University, Ohio, USA (2017-2022)
Department of Visual Communications & Technology Education, Bowling Green State University, Ohio, USA (2020-2022)

Provided leadership and oversight in various domains, including administration, curriculum management, student success initiatives, budgeting, facilities management, external development efforts, research endeavors, and faculty/staff development. The Department of Engineering Technologies (DET) was one of the most complex departments within BGSU as it housed 7 BS programs (ENGT, ECET, MET, QS, AMO, FTO, and SYE), 2 MS programs (MTM and LSE), and one graduate certification program (QS). The Department of Visual Communications & Technology Education (VCTE) housed 2 BS programs (VCT and M&T) and one master of education program in Instructional Design & Technology.

Select Tasks and Accomplishments

- Led the department consisting of over 800 students, 14 faculty and staff, and 20 adjuncts. Managed day to day operations including **budgeting, scheduling, hiring, faculty and student issues resolution, timely communications, and advocating department interests** among internal and external constituents.
- Created 5-year strategic plan that maps with the college strategic plan and BGSU's FORWARD plan. Developed annual plans, recruitment and retention plans, and department's mission, vision, and core values with the coordination of dean, faculty, staffs, and student representatives.
- Led the development of the university's first engineering programs - a BS in Systems Engineering and an MS in Logistics and Systems Engineering in fall 2022. Current enrollment is around 40 majors.
- Guided a major curriculum modification for all DET and VCTE programs (co-op hours/numbers reduction, core course reduction, developing new courses, increasing free electives, modifying ENGT to MMET, etc.). This initiative resulted significant growth in retention, enrollment, and graduation. The DET enrollment grew from 630 majors in 2017-2018 to over 800 majors by 2021-2022.
- Led successful ABET accreditation for Robotics and Quality Systems programs, successful ABET re-accreditation of all technology programs, and ATMAE re-accreditation of VCT and M&T programs.
- Led successful initial AABI accreditation for Aviation Management and Flight Operations programs.
- Coordinated departmental targeted recruitment plans and attended all of the recruitment events including Preview Days, President Day, STEM in the Park, Major Match-up, Get with the Program, Speed Networking, and numerous individual meetings with potential students and their families.
- Developed master schedule to streamline the offering of program courses to minimize duplication while supporting timely graduation. Increased the class capacity for multiple courses by adding TA support and laboratory resources.
- Lead the creation of Industry Advisory Board (IAB) for the department covering ENGT, ECET, MET, and QS programs. Coordinated with separate Industry Advisory Boards (IAB) for the Aviation, VCT, M&T and IDT programs.
- Lead the development of departmental Re-appointment, Tenure and Proportion (RTP) document and Graduate Faculty Status document that increased scholarly requirements for faculty members.
- Co-developed college safety manuals for laboratory course instruction and incident reporting.
- Participated in numerous industry visits for fundraising and relationship building.
- Secured academic licenses of RoboDK and SIMIO software ($156K) for the students and faculty.
- Secured CARES Act funding for software, equipment, and supplies for students during COVID-19.
- Secured $25K-$50K/year additional graduate funding for recruiting female and minority students.
- Lobbied and coordinated the purchase of $250K lab equipment for ECET, MMET, and MET programs.
- Managed GA/TA hiring, assignment to faculty members, and performance evaluations.
- Created 2+2 MOU agreements with local career tech schools and community colleges.
- Facilitated the development of promotional materials, print and web content, and communication templates for all programs. Promoted the department/college to the internal and external stakeholders.
- Coordinated with the BGSU eCampus for the management of two 100% online program (QS and M&T).
- Supervised success plans for all tenure track and teaching faculty (1-5 years), mentored junior faculty members, and managed department level faculty Merit Review, APR, EPR, Tenure and Promotion cases.
- Provided numerous professional development opportunities for department faculty to empower their teaching, research, and diversity initiatives. Invited and funded various distinguished researchers and federal agency program directors to motivate faculty in research activities and help with collaborations.
- Coordinated research efforts to encourage proposal submissions by faculty members. The number of proposal submission grew from 1-2 proposals/year to 10-15 proposals per year in five years. This resulted significant grants funding including an NSF IUSE grant ($300K), NSF RET grant ($620K), and 5 industry-sponsored ($150K+) projects.
- Coordinated/hosted multiple external groups including industry groups, workforce development agencies, students and their families, K-12 educators, BGSU Board of Trustees, and state policy makers including Ohio Gov. Mike DeWine.

Institutional Liaison **July 2019- June 2021**
Mid-America Conference (MAC) Academic Leadership Program

Charged by the Provost to lead the MAC program at BGSU. BGSU joined with 11 other universities in the Mid- American Conference (MAC) to participate in the Academic Leadership Development Program (ALDP). The mission of the MAC ALDP is to identify, develop, prepare, and advance faculty as academic leaders in the Mid-American Conference universities. The program provides an opportunity for BGSU faculty to gain valuable knowledge and experience in academic leadership by working closely with select administrators from other colleges and universities in the MAC. The goal of this program is to expose faculty who are interested in administration to the challenges and rewards of institutional service and to prepare them for potential leadership positions within the academy. Whether or not a fellow ultimately chooses to pursue an administrative position in the future, the program, at a minimum, provides the participants with a greater appreciation for and understanding of how universities operate.

Select Tasks and Accomplishments
- Led the call for nomination, evaluation, and selection of BGSU fellows annually.
- Developed annual leadership development programs for these fellows. Leadership program included monthly seminars with the BGSU and external academic leaders including president, provost, CFO, director of diversity and inclusion, etc.
- Managed outstanding teacher nomination and selection process.
- Coordinated with the liaisons from other MAC institutions and participated in the MAC conferences twice a year.

Graduate Program Director **August 2012 – July 2017**
Logistics, Trade & Transportation (LTT), University of Southern Mississippi (USM), Mississippi, USA

Oversaw academic management and curricular development efforts for the LTT master program. Other responsibilities included outreach and recruitment, industry board formation, program assessment, advising, and graduate assistantship administration. The LTT program is a professional degree program, offered both in-person and online formats, that was developed to satisfy regional logistics workforce needs.

Select Tasks and Accomplishments
- Played critical role in the development of MS in Logistics Trade and Transportation (LTT) program. Led the team in the development of program evaluation criteria, assessment of the program, development of website content, formation of an industry advisory council, and outreach activities related to the LTT program.
- Grew LTT program enrollment from 0 to 55 graduate students in five years.
- Reviewed all applicants and made admission recommendations to Graduate College (reviewed more than 150 students per year) and coordinated GA selection and assignment process.
- Facilitated multiple international partnerships with universities and recruitment agencies to recruit international students.
- Advised all graduate students including course selection, mentoring, degree audits, and recommendations.

Assistant Director **October 2009 – July 2017**
Center for Logistics, Trade and Transportation (CLTT), USM, Mississippi, USA

The Center for Logistics, Trade, and Transportation (CLTT) at the University of Southern Mississippi provides a competitive advantage to logistics and supply chain industry and government agencies through its multidisciplinary activities in Logistics, Trade, and Transportation. The creation of the Center for Logistics, Trade and Transportation is the result of an integrated effort of industry, government and The University of Southern Mississippi.

Select Tasks and Accomplishments

- Actively involved with the creation of Industry Advisory Council (IAC) for the center and managed the relationship with IAC.
- Lead the center with creating strategic plan, implementing strategic plan, outreach activities, and other weekly activities.
- Lead research activities by submitting targeted proposals, managing funded grants, and providing consultancy services for its stakeholders.
- Developed business plan for industry projects.
- Secured "University Transportation Center" designation through $7 million US Department of Transportation funding with other consortium members. Led two multi-institutional and multi-disciplinary funded project (over $1 million) as a PI.

Program Coordinator **August 2007 – July 2012**

Industrial Engineering & Technology (IET), University of Southern Mississippi (USM), Mississippi, USA

Managed academic management and curricular development efforts for the IET bachelor program with the coordination of the department chair. Other responsibilities included outreach and recruitment, industry board formation, program accreditation and assessment, advising, and mentoring. The IET program at USM was a face-to-face program and catered toward the regional workforce needs.

Select Tasks and Accomplishments

- Revived the Industrial Engineering & Technology (IET) B.S. program in 2008 by eliminating outdated courses, adding new courses, adding a concentration in logistics, updating course contents, and developing schedules of courses that increased enrollment, retention, and graduation. The IET program at USM was 25 years old and continuously declining prior to this initiative. The enrollment grew from 56 majors in 2008 to 215 majors in 2017 due to this restructure.
- Devised targeted recruitment plans and attended numerous recruitment events in local industries, community colleges, high schools, career fairs, and special events.
- Modified the Industrial Engineering Technology (IET) B.S. program at the University of Southern Mississippi into online format to meet the stakeholder's needs.
- Established institutional alignment with seven community college campuses and modified 2+2 articulation catalog to increase the transfer of students in the IET program.
- Created Partners Industry Network (PIN) to foster internship, co-op, job placement, and senior project data access for IET & LTT students. Placed more than 50 students in co-ops and internship programs.
- Lead ABET accreditation process for IET program by coordinating with the external ABET team members, providing supporting materials, writing the self-study report, and follow-up with the suggested changes.

B. Leadership in Professional Organizations

Editor in Chief

International Journal of Logistics Transportation Research (IJLTR), ***2009-2016***

- Created an editorial review board comprising experts in logistics transportation areas, secured ISBN approval, created call for papers, review templates, managed review process, and published multiple volumes of the Journal. Oversaw the comprehensive content strategy, managed a team of editors, and made final decisions on article selection and publication. Maintained high editorial standards, ensured accuracy, clarity, and relevance in all content.

Editor/Associate Editor

Transportation Research Record (TRR) - Transportation Research Board, The National Academies of Sciences, Engineering, and Medicine, ***2019-present***

Complexity – Special Issue on Modeling and Quantification of Resilience in Complex Engineering Systems, ***2018-2019***

Journal of Enterprise Transformation (JET) – Special Issue on Lean Transformation Systems, ***2011-2013***

- Created specific call for papers, managed review process, and solicited expert reviewers. Oversaw the comprehensive content strategy and made final decisions on article selection and publication in coordination with the editor-in-chief.

Conference Chair / Program Chair

Institute of Industrial & Systems Engineers (IISE) Annual Conference, Pittsburg, Pennsylvania, May 20-23, 2017
Industrial & Systems Engineering Research Conference (ISERC), Anaheim, California, May 21-24, 2016
Engineering Lean Six Sigma (ELSS) Conference, Georgia, Atlanta, September 23 – 25, 2013

- Managed the premier annual conference of the Institute of Industrial & Systems Engineers (IISE) that attracts about 2,000 attendees including industry professionals, academic professionals, students, vendors.
- Created call for papers, managed submission and review platform, coordinated the review of 1,400 abstracts and 600 conference papers.
- Scheduled 1,000+ presentations, organized best paper competitions, coordinated with 70 track chairs, and managed vendor relations.
- Invited and selected keynote speakers.

Technical Vice President

Institute of Industrial & Systems Engineers (IISE), ***2014 – present***

- Created a Student Leadership Board to engage students in IISE technical operations board.
- Established a Future Faculty Fellowship program for senior doctoral students within the U.S. to prepare them for faculty positions. This year long program offers monthly professional development seminars, one to one mentoring, and conference participation.
- Developed an assessment tool to measure the performance of 14 divisions and societies at IISE.

Board of Trustee

The Aviation Accreditation Board International (AABI), ***2022 - present***

- Oversaw the development and revision of accreditation procedures and guides.
- Engagement with international AABI members.

Founding President

Logistics & Supply Chain Division, Institute of Industrial & Systems Engineers (IISE), ***2011 – 2015***

- Developed and executed Division's strategic plan.
- Offered value added programs, managed the affairs of the Division between meetings, and presided at Division Board meetings and Division membership meetings.
- Maintained contact with the Institute as well as with 2,000+ members.
- Conducted the annual election or appointment of officers and Board members.
- Help prepare the annual budget of the Division for submission to the Institute.

President

Lean Division, Institute of Industrial & Systems Engineers (IISE), ***2011-2014***

- Developed and executed Division's strategic plan.
- Established a new Best Practice Award competition and chaired the competition.
- Offered various programs for its 1,500 members.
- Conducted the annual election or appointment of officers and Board members.
- Prepared the annual budget of the Division for submission to the Institute.

Board of Director/Member

Lean Division of IISE, ***2009 – 2011***
College-Industry Council on Material Handling Education (CICMHE), ***2017-2021***

4.0 RESEARCH & SCHOLARLY ACTIVITIES

A. Funded Research Projects/Software/Equipment/Travel Grants

[1]. **Sarder, MD.** (Co-PI), "Northwest Ohio Glass Innovation Hub", funded by the State of Ohio, $31,300,000 duration: 2024 - 2028. News: https://www.bgsu.edu/news/online-media-newsroom/2024/07/bgsu-utoledo-to-serve-as-lead-academic-partners-on-innovation-hub-poised-to-strengthen-Ohio-economy-create-jobs.html

[2]. **Sarder, MD.** (PI), "Empowering BGSU School of Engineering Faculty to Improve Students Learning and Engagement Using Generative AI", funded by BGSU President's Innovation Fund, $10,000, duration: 2024 - 2025.

[3]. **Sarder, MD.** (PI) and S., Islam, Z., "Semiconductor and Microfabrication Laboratory to Support Engineering Programs at BGSU School of Engineering", funded by the ODHE, Super RAPIDS program, $500,000, duration: 2024 - 2026.

[4]. **Sarder, MD.** (PI), Islam, Z., Mayyas, M., and Mayle, T., "Advancing Regional Talent in Smart Technology Enabled Manufacturing (ART in STEM)", US Department of Commerce. EDA STEM Talent Challenge program, $665,658, Duration: September 2023 – August 2026.

[5]. **Sarder, MD.** (PI), "Improving Capacity and Diversity of Falcon BEST Robotics Hub", funded by the U.S. Department of Defense, MDA, $9,685, duration: November 2023 – February 2024.

[6]. Mayyas, M. (PI), Abouheaf, M., Kolla, S., Islam, Z., Amar, S., Shilov, M. and **Sarder, MD.** (Co-PI) "Next-Gen Engineering Excellence: Aligning Advanced Manufacturing Facilities with Future Skill Priorities in Ohio", funded by the ODHE, Super RAPIDS program, $764,558, duration: 2023 - 2025.

[7]. **Sarder, MD.** (PI), **"**Academic Licenses of Simio® Academic Edition to support teaching and research in simulation**"**, funded by Simio LLC®, $360,000, duration: 2019-2024.

[8]. **Sarder, MD.** (PI), Mayyas, M., Abouheaf, M., and Islam, MD. "Supplemental funding of NSF EEC 2206952", funded by National Science Foundation (NSF), RET, $20,000, duration: June 2023 – August 2024.

[9]. **Sarder, MD.** (PI), Mayyas, M., Abouheaf, M., and Islam, MD. "RET Site: Mission Rebuild Workforce through Advanced Manufacturing Training Of K-14 Educators", funded by National Science Foundation (NSF), RET, $600,000, duration: September 2022 – August 2025.

[10]. **Sarder, MD.** (PI), Iqbal, A., Sawaya, W., and Mayyas, M. **"**Supply Chain Lead Time & Visibility Enhancement**"**, funded by of GSW Manufacturing Inc. $63,669, duration: September 1, 2022 – January 31, 2023.

[11]. **Sarder, MD.** (PI), "MDA Falcon BEST Robotics Kits", funded by the U.S. Department of Defense, MDA, $12,000, duration: September 2022 – January 2023.

[12]. Gao, F. (PI), Krishnankuttyrema, R. and **Sarder, MD.** (Co-PI), "Cultivating Learners' Autonomy to Improve Math Skills for STEM Learning", funded by National Science Foundation (NSF), IUSE, $298,715, duration: August 2022 – July 2025.

[13]. **Sarder, MD.** (PI), and Iqbal, A. **"**Minimizing Import Costs & Improving Supply Chain Velocity Through Strategic Sourcing**"**, funded by Bridgestone APM Company, $75,282, duration: January 10, 2022 – August 9, 2022.

[14]. Ogawa, M. (PI), and **Sarder, MD.** (Key Personnel), "Equipment for The Ohio Robotics Advanced Training", ODHE Community Funding, $250,000, duration: 2021.

[15]. **Sarder, MD.** (PI), **"**30 Licenses of RoboDK® Academic Edition to support teaching and research in simulation and offline programming of industrial robots**"**, funded by RoboDK®, $90,000, duration: April 2020.

[16]. **Sarder, MD.** (PI), **"**Industry Projects on Casters, Cybersecurity, and AGV**"**, funded by the Material Handling Institute (MHI), $12,500, duration: duration: April 2018 - April 2019.

[17]. **Sarder, MD.** (PI), "Collaborative Research: Travel Support for Students to Attend the 2016 Industrial and Systems Engineering Research Conference", funded by National Science Foundation (NSF), $5,000, duration: February 2016 – June 2016.

[18]. **Sarder, MD.** (PI), "Improving Retention & Graduate Placement through Partner Industry Network (PIN)", funded by the USM's Initiatives on Curricular and Student Success Innovations, $6,700, duration: January 1, 2015 – March 31, 2016.
[19]. **Sarder, MD.** (Key Personnel), performed Mississippi Roads & Bridges Mapping; Chad Driskell, "Economic Advancement & Transportation Infrastructure", funded by Robert M. Hearing Support Foundation, $225,000, duration: July 2014 – December 2015.
[20]. **Sarder, MD.** (PI), "Assessing the Learning Gains of Manufacturing Students in an Integrated Hands-on Curriculum", funded by National Science Foundation (NSF), $16,482, duration: October 2014 – September 2016.
[21]. **Sarder, MD.** (PI), Sulbaran, T.; Miller, C.; Golias, M.; Mishra, S.; Anderson, M.; Zeitlow, B., "Reshoring and its impact on Transportation Infrastructure & US Economy", funded by US Department of Transportation, $402,226, duration: June 2014 – September 2016.
[22]. Gholston, S. (PI); **Sarder, MD**. (Co-PI); Stewart, R.; Schumaker, J., "Education and Workforce Development in Transportation", funded by US Department of Transportation, $259,278, duration: July 2014 – September 2016.
[23]. Golias, M. (PI); Mishra, S.; Ivey, S.; **Sarder, MD.** (Co-PI), Holt, D.; Anderson, M.; Hurt, M., "Addressing MAP-21 Freight Objectives using GPS Data", funded by US Department of Transportation, $664,224, duration: July 2014 – September 2016.
[24]. **Sarder, MD.** (Co-PI), "Golden Opportunity for Active Learning", funded by USM's Quality Enhancement Plan (QEP), $1,400 duration: May 2014.
[25]. Miller, C. (PI); **Sarder, MD.** (Co-PI); Sulbaran, T., "Center for Freight and Infrastructure Research and Education (CFIRE) – Base Fund for Phase II", funded by US Department of Transportation, $99,682 (this is a part of $3,500,000 consortium grant), duration: January 2014 – September 2016.
[26]. Miller, C. (PI); Sulbaran, T.; **Sarder, MD.** (Co-PI), "Effective Utilization of Innovation Techniques within Mississippi's Intermodal Professional Workforce", funded by US Department of Transportation, $30,310, duration: June 2013 – January 2014.
[27]. **Sarder, MD.** (PI); Sulbaran, T.; Miller, C.; Holt, D.; Golias, M.; Richard, S.; Anderson, M.; Mohammadian, K., "Realigning Multimodal Freight Networks in Response to International Capacity Expansion", funded by US Department of Transportation, $494,934, duration: July 2012 – December 2014.
[28]. Abkoitz, M. (PI); Dobbins, J.; **Sarder, MD.** (Co-PI); Stewart, R; Anderson, M.; Liu, S., "A Multi-Modal Freight Safety, Security and Environmental Routing Tool", funded by US Department of Transportation, $346,000, duration: July 2012 – December 2014.
[29]. Sulbaran, T. (PI); Rahman, M.; **Sarder, MD.** (Co-PI); Miller, C., "Intermodal Transportation Curriculum for Secondary Education – A Pilot Study", funded by Mississippi Department of Education, $16,000, duration: August 2012 – July 2013.
[30]. Miller, C. (PI); **Sarder, MD.** (Co-PI); Sulbaran, T., "Center for Freight and Infrastructure Research and Education (CFIRE) – Base Fund for Phase I", funded by US Department of Transportation, $95,345 (this is a part of $3,500,000 consortium grant), duration: January 2012 – December 2014.
[31]. Miller, C. (PI); **Sarder, MD.** (Co-PI); Sulbaran, T., "Projected Realignment of Gulfport Area Warehousing and Distribution Industry Cluster due to the Panama Canal Expansion", funded by US Department of Transportation, $25,091, duration: May 2012 – June 2012.
[32]. Sulbaran, T. (PI); Miller, C.; **Sarder, MD.** (Co-PI); Richard, B., "Triple-Bottom Line Assessment of Future Intermodal Facility in Mississippi", funded by Mississippi Department of Transportation, $140,875, duration: March 2011 – November 2012.
[33]. **Sarder, MD.** (PI), "US-Panama Joint Research Planning Meeting - Logistical and Economic Impact Analysis of the Panama Canal Expansion on the U.S. Gulf Coast", funded by the Aubrey Keith Lucas and Ella Ginn Lucas Endowment, $3,696, duration: May 1, 2011 – April 30, 2012.
[34]. **Sarder, MD.** (Key Personnel), performed Mississippi Infrastructure Mapping; "Blueprint Mississippi", funded by Robert M. Hearing Support Foundation, $115,000, duration: April 2011– October 2011.

[35]. Sulbaran, T. (PI); **Sarder, MD.** (Co-PI); Miller C.; Rahman, M., "Interdisciplinary Executive Format master's degree in Logistics, Trade and Transportation (MSLTT) to Attract Working Professional in the Gulf Coast Region and in Latin America", funded by LEC of USM, $15,000, duration: August 2011 – December 2011.

[36]. **Sarder, MD.** (PI), **"**Travel grants for supporting faculty and students to participate in PROMAT, MODEX, LSMRCE, and other conferences", mostly funded by the Material Handling Institute (MHI), $33,500. Duration: Since 2011.

B. Publications

I. Books

[1]. **Sarder, MD.** (2024). *Logistics Transportation Systems*. Elsevier, 2nd Edition. *Under Review.*

[2]. **Sarder, MD.** (2020). *Logistics Transportation Systems*. Elsevier, 1st Edition, (ISBN 978-0-12-815974-3).

[3]. Vajpayee, S., & **Sarder, MD.** (2019). *Fundamentals of Economics for Applied Engineering*. CRC Press: Taylor & Francis Publishing Group, 2nd Edition, (ISBN 978-0-367-18946-4).

[4]. **Sarder, MD.** (2014). *Logistics Transportation Systems*. Raleigh, N.C., Lulu Press Inc., (ISBN 978-1-304-75706-7)

[5]. **Sarder, MD.** (2012). *Managing Design Knowledge: Ontology Modeling in Product & Process Design – 2nd edition*. Saarbrücken, Germany: AV Akademikerverlag GmbH & Co. KG, (ISBN 978-3-639-42131-6).

[6]. **Sarder, MD.** (2007). *Managing Design Knowledge: Ontology Modeling in Product & Process Design*. Berlin, Germany: VDM Publishing House, (ISBN 978383642837 8).

II. Book Chapters

[1]. **Sarder, MD**. (2024). Reshoring: A Geopolitical Issue with Economic Ramifications for Global Logistics. *Digital Transformation of Supply Chain*. Springer Publishing Company, Accepted, (ISBN XXXXXXXXX).

[2]. **Sarder, MD.,** and Sarder, S. (2021). Improving Resiliency in Healthcare Service by Minimizing Unsatisfied Demand. *Transitioning from Globalized to Localized and Self-Reliant Economies*. IGI Global, December Issue, (ISBN 9781799887058).

[3]. Hosseini, S., and **Sarder, MD.** (2019). Ripple Effect Analysis of Two-Stage Supply Chain Using Probabilistic Graphical Model. *Handbook of Ripple Effects in the Supply Chain*. International Series in Operations Research & Management Science, vol 276. Springer, Cham, (ISBN 978-3-030-14301-5).

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V. Monographs & Published Reports (Research Projects, Juried)

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[2]. **Sarder, MD.**, and Iqbal, A. (2022). *Minimizing Import Costs & Improving Supply Chain Velocity Through Strategic Sourcing*, Bridgestone APM Company, Findlay, OH. 65 pages.

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[4]. **Sarder, MD.** and Haschak, M. (2019). White Paper: *Cyber Security and Its Implication on Material Handling and Logistics.* Material Handling Industry, Charlotte, NC, 17 pages.

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VI. Research & News Articles (Not juried)

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[6]. Iqbal G. & **Sarder, MD.** (2012). Distribution network optimization by using genetic algorithm. *SYNERGY: A Journal for Graduate Student Research*. Vol. 3, Issue 2.

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C. Panel Discussions & Technical Presentations

I. Panel Discussions

Invited as a panelist member to provide expert opinion on the topics below. These moderated panel discussions had formal presentations followed by Q&A in interactive settings.

[1]. **Sarder, MD.**, (2023). 2023 Envision Explore STEM programs. *Bowling Green State University*.

[2]. **Sarder, MD.**, (2022). National Youth Leadership Forum: Explore STEM. *Bowling Green State University*.

[3]. **Sarder, MD.** et all, (2021). STEM Career for High School Students. *Bowling Green State University*.

[4]. **Sarder, MD.** et all, (2019). National Youth Leadership Forum: Explore STEM. *Bowling Green State University*.

[5]. **Sarder, MD.** et all, (2015). Student Career Development. *IIE Applied Solutions Conference.* Nashville, Tennessee.
[6]. **Sarder, MD.** et all, (2014). Global Transformation of Supply Chain. *IIE Applied Solutions Conference.* Montreal, Canada.
[7]. **Sarder, MD.** et all, (2012). Realigning Multimodal Freight Network due to International Capacity Expansion. *Mid-Continent Transportation Research Forum.* Madison, Wisconsin.
[8]. **Sarder, MD.** et all, (2010). Efficient Freight Movement and Transportation Modeling. *Intermodal Trade and Transportation Studies (ITTS) Conference.* Memphis, Tennessee.
[9]. **Sarder, MD.** et all, (2009). Efficient Use of the Rural Transportation Network: An Economic Development Advantage. *SASHTO Conference.* Biloxi, Mississippi.

II. Technical Presentations (Juried)

Delivered more than 100 presentations (invited & contributed) to professional audiences in the following national and international conferences.

[1]. NSF RET Virtual Conference
[2]. IMHRC Conference
[3]. IISE Annual Conference
[4]. Ohio Academy of Sciences Annual Meeting
[5]. NSF EEC Conference
[6]. MHI Annual Conference
[7]. Risk Analysis Conference
[8]. TRB Annual Meeting
[9]. ASEE Annual Conference
[10]. ITTS Conference
[11]. PICMET Conference
[12]. Engineering Lean Six Sigma Conference
[13]. Intermodal Conference
[14]. Mid-Continent Transportation Research Forum
[15]. IJIE Conference
[16]. INCOSE Conference
[17]. IEEE System of Systems Engineering Conference
[18]. INFORMS Annual Meeting
[19]. ASQ/Lean Manufacturing Conference
[20]. APICS International Conference

III. Technical Presentations (Not juried)

Delivered more than 50 presentations (including guest lectures) to professional audiences in various international, national, state, and local events. Following is a partial list of presentations.

[1]. David Robinson, and **Sarder, MD., (**Oct 2019), "Equipment for The Ohio Robotics Advanced Training", ODHE Community Fund Technical Assistance and Research Center", Regional Growth Partnership
[2]. David Dobrzykowski, D., Mayyas, M.; and **Sarder, MD., (**Feb 2018), "Value Creation Through Strategic Partnerships", Regional Growth Partnership
[3]. **Sarder, MD., (**Oct 2017), "Integrated Hands-on Learning for STEM graduates", College of Technology, Bowling Green State University
[4]. **Sarder, MD., (**Oct 2017), "Reshoring and its Impact on U.S. Transportation & Economy", College of Business, Bowling Green State University
[5]. **Sarder, MD., (**Jul 2017), "Integrated Hands-on Learning Framework for Techys at USAFA", US Air Force Academy, Colorado Springs, Colorado

[6]. Campbell, S., **Sarder, MD.,** Kilgore, A., and Yuan, Z. (Jan 2017), Promoting Logistics & Economic Development in the State. Mississippi Development Authority, Jackson, Mississippi.
[7]. **Sarder, MD., (**Jun 2016), "Business Meeting with local SOLE partners", Ocean springs, MS
[8]. Toni, D., **Sarder, MD.,** Rivero, I., Mazur, L., and Gautam, N. (Jun 2016), IIE Technical Operations Board Meeting. Anaheim, California.
[9]. **Sarder, MD., (**Apr 2016), "Lunch & Learn with MGCCC-JC Councilors and Teachers", Gautier, MS
[10]. **Sarder, MD., (**Feb 2016), "i-Can: Girls in Engineering –yes, you can", Gulfport, MS
[11]. **Sarder, MD., (**Jun 2015), "Lunch & Learn at Huntington Shipbuilding", Pascagoula, MS
[12]. **Sarder, MD., (**Jan 2015), "Graduate Education for International Students at USM", Dhaka, Bangladesh
[13]. **Sarder, MD., (**Feb 2014), "Engineer your future at the University of Southern Mississippi (USM)", Long Beach, MS
[14]. **Sarder, MD.,** (Jun 2013) "Tele PCS Local Same Day Delivery System Discussion", Biloxi, MS
[15]. **Sarder, MD.,** (Apr 2013) "Master of Science in Logistics, Trade and Transportation for Military Service Members", Hattiesburg, MS
[16]. **Sarder, MD.,** et al, (Mar 2013) "Update on the Center for Logistics, Trade and Transportation Accomplishments", CLTT Summit, Long Beach, MS
[17]. **Sarder, MD.,** (Feb 2013) "Logistics, Trade and Transportation Opportunities for Companies in the Gulf Region", Stennis Day, Biloxi, MS
[18]. **Sarder, MD.,** (Feb 2013) "Logistics, Trade and Transportation in the Gulf Region", Small Business Export Boot Camp, Gulfport, MS
[19]. **Sarder, MD.,** (Feb 2013) "Research Activities of the Center for Logistics, Trade and Transportation at USM", Council of UTCs, Memphis, TN
[20]. **Sarder, MD.,** (Oct 2012) "LTT Educational Opportunities for Military Personnel", Keesler Air force Base, Biloxi, MS
[21]. **Sarder MD.,** & Sulbaran, T. (Oct 2012) "Costal Development Strategies Conference", Biloxi, MS
[22]. **Sarder, MD.,** (Oct 2012) "Congressman Steven Palazzo – Research Updates on CFIRE Projects", Gulfport, MS
[23]. Sulbaran, T., Miller C., & **Sarder MD.**, (Aug 2012) "CLTT Industry Advisory Council – Strategic Planning", Long Beach, MS
[24]. Sulbaran, T., Miller C., & **Sarder MD.**, (May 2012) "CLTT Industry Advisory Council – Progress Report", Long Beach, MS
[25]. Sulbaran, T., Miller C., & **Sarder MD.**, (Mar 2012) "Data Analysis– Study 235: Triple-Bottom Line Assessment of Future MS Intermodal Facility", Jackson, MS
[26]. Sulbaran, T., Miller C., & **Sarder MD.**, (Nov 2011) "Survey Deployment – Study 235: Triple-Bottom Line Assessment of Future Mississippi Intermodal Facility", Jackson, MS
[27]. **Sarder, MD.**, (Jun 2011) "Logistics, Trade and Transportation – for the South African Delegation", Hattiesburg, MS
[28]. Sulbaran, T., Miller C., & **Sarder MD.**, (May 2011) "Literature Review and Survey – Study 235: Triple-Bottom Line Assessment of Future Mississippi Intermodal Facility", Jackson, MS
[29]. **Sarder, MD.**, et all (Feb 2011) "Collaboration Research Opportunities between USM and the International Maritime University of Panama", Panama City, Panama
[30]. **Sarder, MD.,** (Jan 2011) "Opportunities of Higher Education in Logistics, Trade and Transportation", Dhaka, Bangladesh
[31]. **Sarder, MD.**, (Oct 2010) "Improving Shipbuilding Operations through IE Tools & Techniques", Northrop Grumman, Pascagoula, MS
[32]. **Sarder, MD.,** (Sep 2010), "The status of 2+2 articulation between Local Community Colleges and USM", IHL Meeting, Long Beach, MS
[33]. Miller, C., **Sarder, MD.**, & Sulbaran, T., (Apr 2010) "Spring MPO Quarterly Meeting", Gulfport MS.
[34]. **Sarder, MD., (**May 2009), "Industrial Engineering & Logistics Education for Industry People", Chevron, Pascagoula, MS

[35]. **Sarder, MD., (**Apr 2007), "K12 Program Initiation at the University of Texas at Arlington (UTA)", Arlington, TX

IV. Town Hall Presentations

Presented state of the division report to division membership, addressed issues with division activities, and honored award winners in the town hall meetings.

[1]. **Sarder, MD.,** Yang H., and Kong, J. (2016). Lessons Learned and Award Presentation with ISERC Track Chairs. *Annual IIE Conference.* Anaheim, California.
[2]. Green, Don, Genovese Sean, and **Sarder, MD.** (2016). First Time IIE Conference Attendees Orientation. *Annual IIE Conference.* Anaheim, California.
[3]. Ekcioglu B. & **Sarder, MD.** (2014). State of the Logistics and Supply Chain Division Report 2013-2014. *Annual IIE Applied Solutions Conference.* Montreal, Canada.
[4]. **Sarder, MD.** (2013). Logistics and Supply Chain Division Health Report for 2012-2013. *Annual IIE Applied Solutions Conference*. San Juan, Puerto Rico.
[5]. **Sarder, MD.** (2012). State of the Lean Division Report 2011-2012. *Annual IIE Applied Solutions Conference.* Orlando, Florida.
[6]. **Sarder, MD.**, Berry, D., Krishnan, K. & Ekcioglu, B. (2012). Logistics and Supply Chain Division's Strategic Priorities and Future. *Annual IIE Applied Solutions Conference.* Orlando, Florida.
[7]. Badurdeen, F. & **Sarder, MD.** (2011). State of the Lean Division Report 2010-2011. *Annual IIE Applied Solutions Conference*. Reno, Nevada.
[8]. Ali, A., Badurdeen, F. & **Sarder, MD.** (2010). Lean Division Activities and Initiatives in 2009-2010. *Annual IIE Applied Solutions Conference*. Cancun, Mexico.

5.0 TEACHING & PROGRAM DEVELOPMENT ACTIVITIES

A. Courses Taught

Taught following courses either as a traditional face to face or online format at Bowling Green State University (BGSU), University of Southern Mississippi (USM), University of Texas at Arlington (UTA), and University of Maritime Panama (UMIP).

[1]. Engineering Economics: Undergraduate Course at BGSU, USM, and UTA
[2]. Industrial Quality Control: Undergraduate Course at USM
[3]. Industrial Cost Control: Undergraduate Course at USM
[4]. Logistics & Operations Concepts: Undergraduate Course at USM
[5]. Capstone Project: Undergraduate and Graduate Course at BGSU and USM
[6]. Industrial Automation: Graduate & Undergraduate Course at USM
[7]. Production & Inventory Control: Graduate & Undergraduate Course at USM
[8]. Plant Layout & Facilities Design: Graduate & Undergraduate Course at USM
[9]. Motion & Time Study: Graduate & Undergraduate Course at USM
[10]. Lean Production Systems: Graduate & Undergraduate Course at BGSU and USM
[11]. Engineering Project Management: Graduate & Undergraduate Course at USM
[12]. Logistics Transportation Systems: Graduate & Undergrad Course at BGSU, USM, and UMIP
[13]. Logistics Distribution Systems: Graduate & Undergraduate Course at BGSU and USM
[14]. Supply Chain Design & Management: Graduate Course at USM
[15]. Supply Chain Modeling & Analysis: Graduate Course at USM
[16]. Global Supply Chain Management: Graduate Course at USM
[17]. Advanced Supply Chain Management: Graduate Course at USM
[18]. Special Problems: Graduate & Undergraduate Course at BGSU and USM

B. Courses Developed

Developed more than 25 new courses at various institutions including USM, UTA, and BGSU.

Table 1. Snapshot of Developed Courses at various institutions.

Course Number	Course Title	Level	Institution
IET 270	Introduction to Logistics Systems	Undergraduate	USM
IET 271	Introduction to Supply Chain Management	Undergraduate	USM
IET 272	Introduction to Materials Management	Undergraduate	USM
IET 273	Introduction to Purchasing	Undergraduate	USM
IET 370	Logistics & Operations Concepts	Undergraduate	USM
IET 413/513	Lean Production Systems	Grad/undergraduate	USM
IET 414/514	Engineering Project Management	Grad/undergraduate	USM
IET 470/570	Logistics Transportation Systems	Grad/undergraduate	USM/BGSU
IET 471/571	Logistics Distribution Systems	Grad/undergraduate	USM/BGSU
IET 472/672	Global Supply Chain Management	Grad/undergraduate	USM
IET 670	Supply Chain Design & Management	Graduate	USM
IET 671	Supply Chain Modeling & Analysis	Graduate	USM/BGSU
IE 5352	Systems Eng. I –Requirements Definition & Analysis	Graduate	UTA
IE 5353	Systems Eng. II –EVMS & Risk Management	Graduate	UTA
IE 5354	Systems Eng. III –Systems Verification & Validation	Graduate	UTA
SYE 1010	Intro to Systems Engineering	Undergraduate	BGSU
SYE 2010	Engineering Economics	Undergraduate	BGSU
SYE 3010	Systems Simulation and Modeling	Undergraduate	BGSU
SYE 3020	Workplace Design	Undergraduate	BGSU
SYE 3030	Production and Material Handling Systems	Undergraduate	BGSU
SYE 4010	Facility Design and Plant Layout	Undergraduate	BGSU
SYE 4020/5020	Logistics Transportation Systems	Grad/undergraduate	BGSU
SYE 4030/5030	Logistics Distribution Systems	Grad/undergraduate	BGSU

SYE 4700/5700	Study Abroad Experience	Grad/undergraduate	BGSU
SYE 4990	Senior Capstone Project	Undergraduate	BGSU
LSE 6750	Logistics Systems Design and Analysis	Graduate	BGSU
LSE 6760	Healthcare Systems Optimization	Graduate	BGSU

C. Programs Developed

[1]. Multiple Engineering Programs at BGSU, 2023-2024

Once the School of Engineering was established in 2022, three new undergraduate engineering programs were developed and launched in fall 2024. These programs are Electronics and Computer Engineering (ECE), Mechanical and Manufacturing Engineering (MME), and Robotics Engineering (ROBO). The development process included market analysis, curriculum development with the coordination of program faculty, proposal preparation and presentation at various levels of university approval, ODHE and HLC approval.

[2]. BS in Systems Engineering at BGSU, 2020-2021

Developed the first BS in engineering program in systems engineering to meet the regional and national need of this degree. The development process included market analysis, course development, proposal preparation and presentation at various levels of university approval, ODHE and HLC approval. This program was launched in fall 2022.

[3]. MS in Logistics Systems Engineering at BGSU, 2020-2021

Developed the first MS in engineering program in logistics and systems engineering to meet the regional and national need of this degree. This program is a joint program between the college of technology and college of business. The development process included market analysis, course development, proposal preparation and presentation at various levels of university approval, ODHE and HLC approval. This program is scheduled to launch in fall 2021.

[4]. BS in IET-Logistics at USM, 2008-2009

Led the development of a bachelor program in industrial engineering & technology in the area of logistics due to the regional and national need of this degree. The development process included need analysis, course selection, course development, university approval, and IHL approval. This program was approved in 2009 and offered first time in fall 2009.

[5]. Minor in IET at USM, 2009

Created a minor in industrial engineering & technology for other students at the USM. This minor includes six IET courses for non-IET majors. It provided IET minor option for USM students and increased credit hours generated for the host department.

[6]. MS in Logistics, Trade & Transportation at USM, 2009-2010

Led the development of a Master of Science in logistics, Trade and Transportation (LTT) degree program at the USM. LTT requires 10 courses, of which 6 are core courses. Developed 6 core courses, identified 4 elective courses from multiple disciplines, and created several concentrations (MBA, Economic Development, etc.). The LTT program was approved by IHL, offered first time in fall 2010, and by now it has 36 students.

[7]. Center for Logistics, Trade and Transportation at USM, 2009-2010

Actively involved with the development of the Center for Logistics, Trade and Transportation (CLTT) at the University of Southern Mississippi and aggressively promoting the center as an assistant director. Within two years of its inception, CLTT received the recognition of Tier-1 University Transportation Center by US DOT. As part of Tier-1 recognition, CLTT received $3.5 million along with its CFIRE consortium members.

D. Directed Student Research

I. Undergraduates

Directed more than 100 students in their capstone research projects. Following is a sample list of students, their research areas, and duration.

[1]. Cathern Barty, Evelyn Flick, and Nicole Ruffier, Automated Hydroponic System – funded by the Center for Undergraduate Research and Scholarship, Fall 2023 – Spring 2024
[2]. Adam Siegfried, Dryden Bauman, Judah Musacchio, and Bridget Feldman, Local Drone Delivery System – funded by the Center for Undergraduate Research and Scholarship, Fall 2023
[3]. Calen, Claire, Jon, and Luke, Building a Tourbot – funded by the Center for Undergraduate Research and Scholarship, Fall 2023
[4]. Adam Siegfried, Dryden Bauman, and Bridget Feldman, Integrated Logistics System – funded by the Center for Undergraduate Research and Scholarship, Fall 2022
[5]. Joseph Pomierski, In Process Stowage (IPS) Delivery System at Ingalls Shipbuilding, Fall 2016
[6]. Clayton Broom, Hazard Prevention and Control Measures for a Brewery: Safety Program Analysis and Improvement, Spring 2016
[7]. Michael Shable, Reduction in Rework During the Boat Building Process for United States Marine Inc., Spring 2015
[8]. Randy Williams, Reduction of Rework, Prefabricated Piping Spools on Unit Shutdowns at Chevron Refinery, Spring 2015
[9]. Nathan Curtis, Flange and Skid Plate Machining Operations Process for Mississippi Tank Co., Spring 2013.
[10]. Adam Mann, Paperless Lot Release for Kohler Engines, Spring 2013.
[11]. Gulnaz Berreira, Changeover Reduction for the TLM Packaging Machine, Spring 2012.
[12]. Scott Dunston, Inventory Control and Warehouse Operations for Coast Valve and Fittings, Spring 2012.
[13]. John Young, Spool Manufacturing Process Improvement for Ingalls Shipbuilding, Spring 2011.
[14]. Felicia Robinson, Minimizing Engineering Design Changes and the Effects of Mounting Methods at Huntington-Ingalls Industries, Spring 2011
[15]. Michael Lloyd, Fuel Consumption Analysis and Route Adjusting at Stokes Distributing Company, Spring 2010
[16]. Libby Desselles, A Smarter Care and Protection Solution for Shipboard Surfaces, Spring 2010
[17]. David Cubely, Improving Traceability Using Permanent Part Marking, Spring 2009
[18]. Tim Maples, Pipe Shop Process Efficiency for Qualified Fabrication Inc., Fall 2008

II. Graduates

Directed more than 50 students in their dissertation and research projects. Following is a sample list of students (who worked as *graduate research assistants* under my supervision), their research areas, and duration.

[1]. Juthy Mrittika, MS, Measuring Supplier Disruption and Choosing Resilient Suppliers to Reduce Financial Risks, 2023-2024
[2]. Parvez Shaikh, MS, Minimizing Import Costs & Improving Supply Chain Velocity Through Strategic Sourcing – funded by Bridgestone APM, 2022-2023
[3]. Swati Arora, MS, Supply Chain Lead Time & Visibility Enhancement – funded by GSW Manufacturing Inc., 2022-2023
[4]. Jubaer Ahmed, MS, Lean Supply Chain at Apparel Industry, 2016
[5]. Salahuddin Ayuby, MS, Reshoring and its Impact on US Transportation Infrastructure and Economy, 2015-2016
[6]. Zack Bouis, MS, Partner Industry Network (PIN), 2015
[7]. Saurabh Gupta, PhD, Project Risk Analysis and Risk Mitigation, 2015
[8]. John Hubbard, PhD, Cargo Operations and its Economic Impact on Major US Airports, 2013-present
[9]. Lorenzo Capobianco, MS, Global Logistics and Freight Forwarding, 2013-2014
[10]. Tami Monk, MS, Healthcare and Livability issues of Transportation, 2013

[11]. Rajitha Nakka, MS, Oil Shale Fracking, Pharmaceutical Supply Chain, and Reshorability Index, 2013
[12]. Ziaul Adnan, MS, Risk Assessment in HazMat Transportation, 2012-2013.
[13]. Gazi Iqbal, MS, Minimizing Healthcare Disruptions in the Wake of Natural Disasters, 2012-2013.
[14]. Rachel Crawford, MS, Analyzing Reshoring of US Manufacturing Companies, 2011-2012.
[15]. Robert Bidenharn, MS, Intermodal Transportation Analysis, 2011

III. Special Projects

Directed more than 25 graduate and undergraduate students in their independent/special research projects. Following is a sample list of students, their research areas, and duration.

[1]. Jessyca Morales, BS, (Brazil), Brazil Scientific Mobility Program project (Funded by Institute of International Education) on Reshoring, Summer 2015
[2]. Cynthia Bowen, BS, International Container Shipping, Spring 2013.
[3]. Cui Xinxin, MS, A Roadmap for Lean Six Sigma in Service, Spring 2013
[4]. Craig Sumrall, MS, Military Transportation and Transportation Security, Spring 2013
[5]. Jeffrey Mitchel, BS, Risk Management in Engineering Projects, Spring 2012
[6]. Mathew Norton, MS, Production and Distribution of Pine Straw in Mississippi, Spring 2012
[7]. Mohsen, Foroughi, MS, Developments and Threats to Oil Transportation, Spring 2012.
[8]. Joseph Anderson, BS, A Lean-Six Sigma Conceptual Framework for Start-ups and Small Businesses, Fall 2012
[9]. Diana Genton, MS, Logistics Performance Index Factors and Their Influence on Globalization, Fall 2011
[10]. Doris Martir, BS, (Puerto Rico), ***NSF-REU*** Project on Logistical Analysis of Intermodal Facilities, 2010
[11]. Sammy Byrd, MS, The Use of EVMS Techniques in a Production Environment, Summer 2009
[12]. April Martin, MS, Supply chain management and reverse logistics for the electronics industry, Fall 2008

E. Empowering Students in Extra Classroom Activities

I. Conference Participations

Dr. Sarder empowered students to go beyond the specific course objectives. He frequently engaged students, including undergraduates in research activities and provides funding to attend national and international conferences. Many of his students' research papers were published in various conference proceeding and journals. Following is a partial list of conferences where his students presented research papers.

[1]. MODEX Shows & Conference, Atlanta, Georgia, March 12-14, 2024: 11 BGSU faculty and students were funded to attend this event. Funding amount: $4,500
[2]. PROMAT Shows & Conference, Chicago, Illinois, March 21-22, 2023**:** 18 undergrad/grad students and 2 faculty members were funded to attend this event. Funding amount: $5,000
[3]. MODEX Shows & Conference, Atlanta, Georgia, March 29-31, 2022: 11 BGSU faculty and students were funded to attend this event. Funding amount: $3,500
[4]. MODEX Shows & Conference, Atlanta, Georgia, March 10-12, 2020: 13 BGSU faculty and students were funded to attend this event. Funding amount: $4,550
[5]. PROMAT Shows & Conference, Chicago, Illinois, April 9-10, 2019**:** 16 undergrad/grad students and 2 faculty members were funded to attend this event. Funding amount: $5,000
[6]. MODEX Shows & Conference, Atlanta, Georgia, April 10-12, 2018: 9 undergrad/grad students and a professor were funded to attend this event. Funding amount: $2,500
[7]. Industrial & Systems Engineering Research Conference, Anaheim, California, June 21-24, 2016: 2 graduate students were funded to attend this event. Funding amount: $1,900
[8]. MODEX Shows & Conference, Atlanta, Georgia, April 4-7, 2016: 7 undergrad/grad students and a professor were funded to attend this event. Funding amount: $1,500
[9]. PROMAT Shows & Conference, Chicago, Illinois, March 23-26, 2015**:** 8 undergrad/grad students and 2 faculty members were funded to attend this event. Funding amount: $4,500

[10]. MODEX Shows & Conference, Atlanta, Georgia, March 17-19, 2014: 7 undergrad/grad students, CLTT Operations Manager and a professor were funded to attend this event. Funding amount: $2,000
[11]. Logistics, Trade and Transportation Symposium, Gulfport, Mississippi, February 26-27, 2014: 4 graduate students were funded to attend this event. Funding amount: $600
[12]. Engineering Lean Six Sigma Conference, Atlanta, Georgia, September 23-25, 2013: 1 graduate student was funded to attend this event. Funding amount: $1,520
[13]. National Student Freight Symposium and Workforce Summit, University of Memphis, February 4-6, 2013: 5 graduate students and 2 professors were funded to attend this event. Funding amount: $2,245
[14]. Intermodal Freight Conference, University of Memphis, October 29-30, 2012: 5 undergrad/grad students and 2 professors were funded to attend this event. Funding amount: $1,324
[15]. MODEX Shows & Conference, Atlanta, Georgia, February 6-8, 2012: 5 undergrad/grad students and 2 professors were funded to attend this event. Funding amount: $1,136
[16]. PROMAT Shows & Conference, Chicago, Illinois, March 21-24, 2011**:** 9 undergrad/grad students and 2 professors were funded to attend this event. Funding amount: $2,695

II. Competitions Won (Regional & National)

Dr. Sarder guided many USM students and student teams for various regional and national levels competitions including poster competition, best paper competition, best student award, and case competition. Following is a list of winning teams and students.

[1]. Salahuddin Ayuby, LTT graduate student: Recipient of the NSF Travel Grant for presenting research paper in the IIE annual conference, 2016
[2]. Salahuddin Ayuby, Outstanding Master Student Award from the College of Science and Technology-USM-Gulf Park, 2016
[3]. Lorenzo Capobianco and Tami Monk, Graduate students: Recipient of the 3rd place winner in the national CFIRE student case competition, 2014
[4]. David Rodkey, IET undergraduate senior: Recipient of MS Manufacturers Association Scholarship, 2014
[5]. Cynthia Bowen, IET undergraduate senior: Recipient of MS Manufacturers Association Scholarship, 2014
[6]. Rajitha Nakka, LTT graduate student: Recipient of the 1st place in "Best Paper Award" for engineering lean six sigma conference, 2013
[7]. Gazi Iqbal, LTT graduate student: Recipient of the NSF Travel Grant for presenting research paper in the IIE annual conference, 2013
[8]. Ziaul Adnan, LTT graduate student: Recipient of the "Best Graduate Research" award in Logistics within USM, 2012
[9]. Michael Duarte, IET undergraduate senior: Recipient of MS Manufacturers Association Scholarship, 2012
[10]. Tami Monk, Ziaul Adnan, and Faisal Mallum, Graduate students: Recipient of the 3rd place winner in the national CFIRE student case competition, 2012
[11]. Daniel Assamah, Gazi Iqbal, and Zakia Farhana, Graduate students: Recipient of the 3rd place winner in the national CFIRE student case competition, 2012
[12]. Gulnaz Barrera, IET undergraduate sophomore: Recipient of the "best undergrad student" in the college of science & technology, USM Gulf Coast, 2011

6.0 SERVICE ACTIVITIES

A. Leadership Development

Dr. Sarder participated in many leadership development activities to enhance his leadership skills. His understanding of changing dynamics of higher education prepared him to lead higher ed. institutions effectively. He knows how to engage constituents in promotion of STEM education and broadening participation of diverse groups. His training on conflict resolution and handling difficult people enabled him building consensus in academic decision making. Following is a snapshot of his leadership development activities.

[1] Essential Management Skills for Emerging Leaders, Harvard University, June 7-August 9, 2021

This intensive program is designed to help administrators master core business concepts, build key leadership skills, and explore and develop their personal leadership style. Participants gain a cross-functional view through sessions led by instructors specializing in each subject area and through project-based learning. This program covered a wide variety of topics including the following: (a) Leadership and strategic planning; (b) the power of leading with strengths and emotional intelligence; (c) Cultivating a strategic thinking mindset; (d) Negotiation and communication; (d) Creating a customer-centric organization; (e) Change management; (f) Managing finances; and (f) Managing your mind: implicit bias and the workplace. This program culminates with a real-life project supervised by a Harvard faculty.

[2] AAC&U Knowledge Exchange Institute, Washington, DC, May 20-24, 2019

At the Institute, more than 50 STEM faculty and researchers from various institutions within the US engaged in discussions to develop a common understanding and language for determining success in broadening participation interventions. There is a much broader need for STEM faculty and education researchers to build a national coalition of reformers who can lead higher education in avoiding common pitfalls associated with program implementation as well as reversion to old habits and habits of mind that limit our capacity to retain new majority students in STEM. This workshop provided opportunities for critical reflection intended to deconstruct dynamics of power and privilege surrounding evaluation and education research; exposure to scholarly work that demonstrates the kinds of evidence that illuminates of understanding of interventions in STEM higher education; and deep exploration of issues in the development of measures and indicators that are sensitive to capturing changes in underrepresented individuals and communities.

[3] MAC Academic Leadership Program, August 2018- May 2019

The goal of the Mid-American Conference Academic Leadership Program (hereinafter "ALDP") was to assist a select group of individuals (Leadership Fellows) to develop and enhance their ability to be effective academic leaders. Leadership Fellows are selected by their own institutions based on ability or demonstrated promise. This year long leadership program enabled participating fellows to achieve following outcomes: articulate the complexity of the structure and operations within an institution and across institutions; describe the impact of the external influences on the role of leaders in a higher institution. This should include, but is not limited to, federal/state regulations and mandates, accreditation, and community influence; identify best practices in academic leadership; assess one's own leadership potential, including strengths and weaknesses, and identify leadership pathways; and communicate the importance of inclusive excellence.

[4] Leading Innovation in Higher Education, Washington, DC, June 4-5, 2018

This seminar was designed for department chairs across the nation to comprehend the changing dynamics of higher education in the US in terms of raising students' debt, public perception, declining high school population in some regions, learning styles of millennials and generation Z, and many others. This program designed and facilitated by Ithaka S+R and the Academy for Innovative Higher Education Leadership at Arizona State and Georgetown universities. Participants were part of a cohort for this program, giving them an unparalleled opportunity to help shape this initiative at the same time

they're taking part in an experience that helped them become a better leader for their department, and at their institution. Participants across the nation were joining other fellows in the program who brought with them impressive professional experience from a variety of institutions, as well as a dedication to helping solve some of the toughest problems facing higher education.

[5] PKAL STEM Leadership Institute, Adamstown, MD, July 10-14, 2018

PKAL STEM Leadership Institute is dedicated to empowering STEM faculty, including those from underrepresented groups, to graduate more students in STEM fields who are competitively trained and liberally educated. It leads the nation in catalyzing the reform of undergraduate STEM teaching and accelerate the widespread uptake and adoption thereof. This weeklong institute was focused on developing skills in: evidence-based approaches to professional development for STEM faculty that honor, and are appropriately grounded within, the complex relationships that exist between and among institutional contexts, professional aspirations, and personal perspectives; excellence in undergraduate STEM teaching that is evidence-based, interactive, inclusive, and culturally sensitive and responsive; courageous leadership that embraces diverse perspectives with authenticity and legitimacy; effectiveness in leadership development for STEM faculty that is intentionally introspective, reflective, and holistic in approach; and communities of practice that support and energize the development of a national platform for expanding the STEM higher education reform knowledge base.

[6] Numerous one-day workshops on Leadership, Team Building, Conflict Management

B. Editorial Services

Table 2. List of major editorial and review services

Editor in Chief	International Journal of Logistics Transportation Research (IJLTR), 2009-2016
Editor/Associate Editor	[1]. Transportation Research Record (TRR) - Transportation Research Board, The National Academies of Sciences, Engineering, and Medicine, 2019-present [2]. Journal of Enterprise Transformation (JET) – Special Issue on Lean Transformation Systems, 2011-2013 [3]. International Journal of Engineering and Industries (IJEI), 2010-present [4]. International Journal of Digital Content Technology and its Application (JDCTA), 2009-present [5]. Complexity – Special Issue on Modeling and Quantification of Resilience in Complex Engineering Systems, 2018-2019
Technical Reviewer *[Reviewed more than 300 articles]*	[1]. Journal of Transportation Research Board, 2008-present [2]. International Journal of Production Research (IJPR), 2010-present [3]. International Journal of Collaborative Enterprise, 2010-present [4]. International Journal of Integrated Supply Management, 2015-present [5]. Journal of Manufacturing Systems, 2011 – present [6]. International Journal of Rapid Manufacturing, 2015- present [7]. American Society of Eng. Education Conference, 2011-present [8]. International Journal of Lean Enterprise Research, 2013-present [9]. Industrial & Systems Engineering Research Conference (ISERC), 2012 –present [10]. Engineering Lean Six Sigma (ELSS) Conference, 2011- present [11]. Industrial Engineering and Operations Management (IEOM) conference, 2009-2011 [12]. Industrial Engineering Research Conference (IERC), 2005-2011

[13]. International Council of Systems Engineers (INCOSE), 2007-2010
[14]. International Journal of Automation in Construction, 2009-2012

Book Reviewer

[1]. Newnan's Engineering Economic Analysis 14e, Oxford University Press
[2]. Handbook of Industrial and Systems Engineering. New York: CRC Press, 2nd edition
[3]. Quality Control, Besterfield, Pearson, 8/e, 2008, New Jersey
[4]. Introduction to Engineering Technology, Pond, Pearson, 7/e, 2008, New Jersey

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C. Professional Services

Table 3. List of major services in various professional organizations & events

Conference Chair / Program Chair

[1]. Institute of Industrial & Systems Engineers (IISE) Annual Conference, Pittsburg, Pennsylvania, May 20-23, 2017
[2]. Industrial & Systems Engineering Research Conference (ISERC), Anaheim, California, May 21-24, 2016
[3]. Engineering Lean Six Sigma (ELSS) Conference, Georgia, Atlanta, September 23 – 25, 2013
[4]. IIE/APM Annual Research Mini Conference, UTA, April 5, 2006

Program Evaluator

[1]. Accreditation Board for Engineering and Technology (ABET), 2017 – present
[2]. Aviation Accreditation Board International (AABI), 2018 – present

Technical Chair

[1]. Logistics, Trade and Transportation Symposium, Gulfport, Mississippi, February 26-27, 2014
[2]. International Conference on Industrial Engineering and Operations Management (IEOM), Kuala Lumpur, Malaysia, January 22 – 24, 2011

Publication Chair

International Conference on Industrial Engineering and Operations Management (IEOM), Dhaka, Bangladesh, Jan 9-10, 2010

Track Chair

[1]. Supply Chain & Service Engineering, IIE Applied Solutions, Montreal, Canada, May-June 2014
[2]. Supply Chain and Logistics, Industrial & Systems Engineering Research Conference, Montreal, Canada, May-June 2014
[3]. Supply Chain & Service Engineering, IIE Applied Solutions, San Juan, Puerto Rico, May 2013
[4]. Lean Systems, Industrial & Systems Engineering Research Conference, San Juan, Puerto Rico, May 2013
[5]. Sustainable Six Sigma Implementation, Engineering Lean Six Sigma Conference, Louisville, Kentucky, October 2012
[6]. Supply Chain & Service Engineering, IIE Applied Solutions, Orlando, Florida, May 2012
[7]. Lean Systems, Industrial & Systems Engineering Research Conference, Orlando, Florida, May 2012
[8]. Lean Supply Chain, Engineering Lean Six Sigma Conference, Atlanta, Georgia, September 2011

[9]. Supply Chain & Service Engineering, IIE Applied Solutions Conference, Reno, Nevada, May 2011
[10]. Lean Systems, Industrial Engineering Research Conference, Reno, Nevada, May 2011
[11]. Ergonomics & Work Measurement, IIE Applied Solutions Conference, Mexico, June 2010

Proposal Reviewer

[1]. National Science Foundation (NSF): IUSE program, Reviewed 7 Proposals in 2023
[2]. National Science Foundation (NSF): Research Experience for Teachers Program (RET), Reviewed 14 Proposals in 2022
[3]. NASA Space Grant College and Fellowship Program, Reviewed 2 full proposals in 2019
[4]. National Science Foundation (NSF): Graduate Research Fellowship Program (GRFP), Reviewed 20 Proposals in 2018
[5]. Department of Defense (DoD): Science, Mathematics & Research for Transformation (SMART) Scholarship, Reviewed 40 Proposals in 2016 and 2017
[6]. Department of Defense (DoD): National Defense Science and Engineering Graduate (NDSEG) Fellowship, Reviewed 21 Proposals in 2016
[7]. National Science Foundation (NSF): Graduate Research Fellowship Program (GRFP), Reviewed 30 Proposals in 2015

Panel Member

[1]. IIE Applied Solutions, Global Supply Chain Transformation through Best Practices Adoption, Montreal, Canada, May-June 2014
[2]. IIE Annual Conference, Future of Lean Forum, San Juan, Puerto Rico, 2013
[3]. Mid-Continent Transportation Research Forum, Madison, WI, 2012
[4]. Intermodal Trade and Transportation Studies (ITTS) Conference, Memphis, TN, 2010
[5]. Southeastern Association of State Highway and Transportation Officials (SASHTO) Conference, Biloxi, MS, 2009

Session Chair
[Chaired more than 10 sessions]

[1] Industrial & Systems Engineering Research Conference – 2006, 2008, 2010 – present
[2] PICMET Conference - 2015

Moderator
[Moderated more than 15 sessions]

[1]. ASEE Annual Conference, Indianapolis, IN, June 15-18, 2014
[2]. TRB Annual Conference, Washington D.C., 2014 - present
[3]. IIE Applied Solutions Conference, 2010 – 2015
[4]. Engineering Lean Six Sigma Conference, Louisville, Kentucky, October 2012

Invited Speaker
[Delivered more than 10 talks as invited speaker]

[1]. Industrial & Systems Engineering Research Conference, 2008 – 2014
[2]. Engineering Lean Six Sigma Conference, 2012
[3]. Mid-Continent Transportation Research Forum, 2012
[4]. Intermodal Trade and Transportation Studies (ITTS) Conference, Memphis, TN, 2010

Contributor

IIE Body of Knowledge (BoK) – 2014. Developed BoK in the areas of Logistics & Supply Chain management and Lean Systems.

Professional Mentor	[1]. IIE Student Mentorship Program, Mentees: Nayara Ferrara, Virginia Tech, 2021-2024; Joshua Katz, University of central Florida, 2013-2014; Elena Joy, Georgia Institute of Technology, 2013-2014 [2]. ASEE Mentorship Program, 2014 – present [3]. TRB Mentoring Program, Mentees: Sara Bagwell, Texas Department of Transportation, 2014; Elisa Arias, San Diego Regional Planning Agency, 2013

D. Leadership Positions

Table 4. List of major leadership positions in various professional organizations & events

Technical Vice President	Institute of Industrial & Systems Engineers (IISE), 2014 – 2017; 2017-2021; 2021 – present
Board of Trustee	The Aviation Accreditation Board International (AABI), 2022-2025
Founding President	Logistics & Supply Chain Division, Institute of Industrial Engineers (IIE), 2011 – 2015
President	Lean Division, Institute of Industrial Engineers (IIE), 2011-2014
Board of Director	Lean Division, Institute of Industrial Engineers (IIE), 2009-2011
Board Member	[1]. College Industry Council of Material Handling Education (CICMHE) of Material Handling Institute (MHI), 2017-2021 [2]. Transportation Research Board (TRB) - Intermodal Freight Terminal Design and Operations (AT050) Committee, 2013-2022 [3]. Transportation Research Board (TRB) - Intermodal Freight Transport (AT045) Committee, 2011-2022 [4]. Academic Subcommittee, Association of Operations Management Society (APICS), 2011
Committee Chair	[1]. IISE Future Faculty Fellows (3F). 2021-present [2]. IISE Student Leadership Board (SLB), 2021- present [3]. Poster Presentation Competition, LTT Symposium, 2014 [4]. AT045 Paper Review Committee, Transportation Research Board (TRB), 2013-2022 [5]. EdNet-Lean Division Merging Taskforce, 2013 [6]. Intermodal Connections, Mississippi State Transportation Symposium, 2012 – 2016 [7]. Developed the Lean Best Practice Award at the IIE Lean Division and chaired the competition, 2010-2018 [8]. Students' Case Competition, CFIRE Consortium, 2012-2014 [9]. National Engineers Week, UTA, February 2006
Chapter President *[Two terms for Alpha Pi Mu]*	Alpha Pi Mu (IE Honor Society) UTA Chapter, 2005-2007
Chapter Vice-president *[Three terms for APICS]*	[1]. APICS (Operations Management Professional Society) UTA Chapter, 2003-2004, 2005-2007 [2]. Alpha Pi Mu UTA Chapter, 2004-2005
Senator	[1]. UTA Student Congress (Engineering), 2006

	[2]. Graduate Student Senate (IE), 2005-2006
Graduate Coordinator *[Three terms for IIE]*	IIE UTA Chapter, 2002-2003, 2005-2007
Secretary	Joint Council of Engineering Organizations (JCEO), 2006
Organizer	APM Annual Research Mini Conference, UTA, October 2005
Mentor	UTA Peer Mentoring & UTA HOSTS, 2004-2007
Peer Advisor	International Peer Advising, UTA, 2004-2006

E. University Services

I. School/Department Level

[1]. Director, School of Engineering (SOE), 2022 – Present
[2]. Chair, Engineering Technologies, 2017 – 2022
[3]. Chair, Visual Communications and Technology Education, 2020 – 2022
[4]. Supervisor, College Tech Store, 2019 – 2023
[5]. Graduate Program Director, LSE and MTM Programs 2017 – present
[6]. Program Coordinator/Director & Academic (Grad and Undergrad) Advisor, 2007-2017
[7]. Assistant Director, Center for Logistics, Trade and Transportation, 2009-2017
[8]. University Liaison, Educational Degree Programs Committee, CLTT Industry Advisory Council, 2012 – 2017
[9]. Department Chair Search Committee, School of Construction, 2012-2014
[10]. Tenure and Promotion Committee, School of Construction, 2013- 2017
[11]. Personnel Committee, School of Construction, 2012-2013
[12]. UPC Program Evaluation Committee, 2009
[13]. ABET Accreditation Committee, 2009
[14]. Faculty Search Committee, School of Construction, 2008-2009

II. College Level

[1]. Lead the Creation of Schools of Engineering and Aviation, 2020 – 2022
[2]. CTAAE College Council, BGSU, 2020-2021
[3]. CTAAE Building Renovation Committee, BGSU, 2018
[4]. Director of Advising, Search Committee Member, CTAAE, 2019
[5]. College Systems Analyst Search Committee Chair, BGSU, 2018
[6]. CTAAE Scholarship Committee, BGSU, 2017 - present
[7]. Academic Leadership Team (ALT) Committee, BGSU, 2017 – present
[8]. Associate Dean Search Committees, BGSU, 2018
[9]. CTAAE College Council, BGSU, 2017-2018
[10]. College of Science & Technology Advisory Committee, USM, 2016 -2018
[11]. College of Science & Technology Research Committee, USM, 2012 -2014
[12]. College of Science & Technology Space Committee, USM Gulf Coast, 2013-2017
[13]. Chair, College Student Awards Committee, USM Gulf Coast, 2011
[14]. JCEO List Server Moderator, UTA, 2006
[15]. National Engineers Week (E-Week) Organizer, UTA, 2006

III. University Level

[1]. Falcon Hub Director, BEST Robotics Competition, 2022- present
[2]. Institutional Liaison, MAC Fellowship Program, 2019-2021
[3]. COVID-19 Student Experience Planning Taskforce, 2020
[4]. Academic Leadership Council, 2019 – 2020
[5]. Director of Institutional Effectiveness, Search Committee Member, BGSU, 2019
[6]. Institutional Effectiveness Coordinator, Search Committee Member, BGSU, 2019
[7]. APS Data Definition Committee, Fall 2019
[8]. Academic Investment in Math & Science (AIMS) Advisory Board, 2018-present
[9]. LSMRCE Site Faculty Champion, 2018-present
[10]. Ph.D. Advisory committee member – Kenneth Cox, College of Musical Arts, 2018-
[11]. Institutional Review Board (IRB) Committee, College Representative, 2013-2017
[12]. Affiliated faculty, USM Center for Undergraduate Research, 2013 – 2017
[13]. SACS Sub-Committee for CS 3.8.1, 2013 - 2017
[14]. Lucas Endowment Award Committee, 2011-2017
[15]. Faculty Advisor of Gamma Beta Pi Honor Society, 2010 –2017
[16]. Disaster Preparedness Center Steering Committee, 2010 -2017
[17]. Gulf Coast e-Learning Award Selection Committee, 2009 -2011
[18]. Capstone Class Assessment Program, ETS Proficiency Profile (MAPP), 2009-2013
[19]. USM Academic Technology Committee, 2009
[20]. Student Congress Rules and Appropriations Committee, UTA, Fall 2006
[21]. International Student Advisory Committee, UTA, 2005-2006
[22]. GSS Publication Committee, UTA, 2005-06
[23]. Graduate Student Retention Committee, UTA, 2005-2006
[24]. International Student Organization, UTA, 2004-2005
[25]. UTA International Week, Spring 2004

F. Community Services

[1]. Best Robotics Competition, BGSU, 2018-2021
[2]. Mobile Food Bank – Feeding the hungry in Toledo, OH, 2020-2022
[3]. Science Fair Judging –State Fair Judge, 2009; 2012; Regional Fare Judge, 2009 - 2013
[4]. Big Events – at Habitat for Humanity, Biloxi, 2010
[5]. Coastal Cleanup – Coordinated and Participated in a Biloxi Beach Cleanup Event, 2008
[6]. Fund Raising for Hurricane SIDR Victims (Raised $3655.00)- 2008
[7]. Special Olympics –2006
[8]. Hurricane Katrina Donation Drive – 2005
[9]. Mission Arlington –2004

G. Professional Society Affiliations

[1]. American Society for Engineering Education (ASEE)
[2]. Institute of Industrial and Systems Engineers (IISE)
[3]. The Association for Operations Management (APICS)
[4]. International Council of Systems Engineers (INCOSE)
[5]. Institute for Operations Research and the Management Sciences (INFORMS)
[6]. Transportation Research Board (TRB)
[7]. College Industry Council on Material Handling Education (CICMHE)
[8]. Aviation Accreditation Board International (AABI)
[9]. Accreditation Board for Engineering and Technology (ABET)
[10]. Tau Beta Pi (National Engineering Honor Society)
[11]. Alpha Pi Mu (Industrial Engineering Honor Society)
[12]. Phi Beta Delta (Honor Society of International Scholars)
[13]. National Scholars Honor Society

7.0 HONORS & AWARDS

[1]. Leadership as a Chair/School Director Award, BGSU Faculty Senate, 2024
[2]. Olscamp Research Award, BGSU, 2023
[3]. University Marshal, BGSU Spring Commencement, 2023
[4]. Fellow, Mid America Conference (MAC) Academic Leadership, 2018-2019
[5]. Service Award, AT045 Committee of Transportation Research Board, 2018, 2019
[6]. Fellow, Leading Innovation in Higher Education, 2018
[7]. PKAL STEM Leadership Institute, 2018
[8]. IISE Annual Conference Chair Award, 2017
[9]. Outstanding Teaching Award in Lean, Institute of Industrial & Systems Engineers, 2016
[10]. ISERC Program Chair Award, 2016
[11]. Outstanding Service Award, Logistics & Supply Chain Division of IIE, 2014, 2015
[12]. Winner, QEP Topic "Eagles Engaged: Golden Opportunity Thru Active Learning", 2014
[13]. CoST Outstanding Faculty Research Award, 2013-2014
[14]. Outstanding Service Award, Lean Division of IIE, 2013, 2014, & 2015
[15]. Best paper award (1st place) in the Engineering and Lean Sigma Conference, 2013
[16]. Buch Oustalet Distinguished Professorship Award (Research), 2011 and 2013
[17]. Aubrey Keith Lucas and Ella Ginn Lucas Endowment (Research), 2011-2012
[18]. Outstanding New Advisor Award from NACADA (Academic Advising), 2011
[19]. Buch Oustalet Distinguished Professorship Award (Teaching), 2010
[20]. Innovations in Curriculum Award from IISE (Teaching), 2010
[21]. Distinguished Professor of e-Learning Achievement Award (Teaching), 2008 & 2009
[22]. Quality Enhancement Plan Fellowship, 2008
[23]. Tau Beta Pi Fellowship, 2007-2008
[24]. Who's Who in America, 2007
[25]. John S.W. Fargher Scholarship, 2006 -2007
[26]. Gilbreth Memorial Fellowship, 2006 -2007
[27]. University Scholar, 2006
[28]. Volunteer Leaders' Scholarship – Spring 2006 & Fall 2005
[29]. Alpha Pi Mu National Award of Excellence, 2005 -2006
[30]. APICS Scholar, 2005 & 2006
[31]. National Science Foundation's (NSF) Travel Grant, 2005