

DR. NIAZ LATIF

Associate Vice Chancellor for Commercialization and Research
Executive Director, Commercialization & Manufacturing Excellence Center
Fellow, American Society for Engineering Education (ASEE)
Purdue University Northwest
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EDUCATION:

- **Ph.D.** Agricultural Engineering, University of Missouri-Columbia, 1988
- **M.S.** Agricultural Engineering, South Dakota State University, 1985
- **M.S.** Engineering, South Dakota State University, 1983
- **B.Sc.** Engineering (Mechanical), University of Chittagong, Bangladesh, 1977

ADMINISTRATIVE APPOINTMENTS:

- **2007-present: Dean**, College of Technology, Purdue University Northwest
- **2020-2021: Interim Dean**, College of Engineering and Sciences, Purdue University Northwest
(Note: Held the position concurrently with the Dean position in the College of Technology)
- **2019-2020: Interim Provost and Vice Chancellor** of Academic Affairs, Purdue University Northwest
- **2014-present: Executive Director**, Commercialization and Manufacturing Excellence Center (CMEC), Purdue University Northwest
- **2008-2012: Interim Associate Vice Chancellor** for Research and Graduate Studies (Dean, Graduate School) Purdue University Northwest (Note 1: The research office & graduate school were merged on 7/1/ 2010)
(Note 2: Held the position concurrently with the Dean position in the College of Technology)
- **1999-2006: Department Head**, Department of Industrial Technology, College of Technology, Purdue University, West Lafayette. (Note: Currently, the name changed to Department of Technology Leadership and Innovation)
- **2001-2006: Director**, Weekend Master's Degree Program, College of Technology, Purdue University, West Lafayette. (Note: Held the position concurrently with the Department Head position in Industrial Technology)
- **1996-1999: Coordinator, Engineering Technology Programs**, Department of Technology, Northern Kentucky University
- **1996-1999: Director, Technical Services Institute (TSI)**, Department of Technology, Northern Kentucky University

ACADEMIC APPOINTMENTS:

- **2007-present: Professor (with tenure)**, Mechanical Engineering Technology, Purdue University Northwest
- **1999-2007: Professor (with tenure)** of Industrial Technology, Purdue University, West Lafayette
- **2003-2007: Professor (Courtesy)**, Agricultural & Biological Engineering, Purdue University, West Lafayette
- **2000-2007: Professor (Courtesy)**, Curriculum and Instruction, Purdue University, West Lafayette
- **1999:** Professor (with tenure), Department of Technology, Northern Kentucky University
- **1996-1999: Associate Professor (with tenure)**, Department of Technology, Northern Kentucky University
- **1990-1996: Assistant Professor**, Department of Technology, Northern Kentucky University
- **1988-1990: Instructor of Engineering**, Louisiana State University-Eunice (LSUE)

AWARDS AND HONORS:

- Elected to **Fellow** of the American Society for Engineering Education (2018)
- Recognized as the **2017 Distinguished Engineer** by the College of Engineering, South Dakota State University
- Received the **Frederick J. Berger Award** for programmatic and individual excellence in engineering technology education. American Society for Engineering Education (ASEE 2016)
- Recognized as the **Distinguished Alumni** of South Dakota State University (2015)
- Received Purdue University's the **Seed for Success Award** (2014) (*The award is given in recognition of the accomplishments of single investigators and teams of investigators for their efforts in obtaining a \$1 million dollar or more external sponsored award*)
- Recognized as the **Outstanding Administrative Leader** of Purdue University Northwest (2012)
- Recognized as the **Outstanding Alumni** of the Chittagong University of Engineering and Technology (CUET), Bangladesh (2008)
- Al Rudisill **Exemplary Service Award** for serving as the President of University Division, National Association of Industrial Technology (NAIT, presently ATMAE) presented at the Annual Conference (2002)
- **Epsilon Pi Tau**, International Honorary for Professions in Technology (2000)
- **Fellow**, **CIC Academic Leadership Program** (Committee on Institutional Co-operation of Big Ten Universities) (1999-2000)
- **Outstanding Professor of Industrial Technology-Region 1**, National Association of Industrial Technology (NAIT, renamed ATMAE) (1998)
- **Alpha Epsilon**, National Honor Society of Agricultural Engineering (1988)
- **Superior Graduate Achievement Award**, Agricultural Engineering, University of Missouri-Columbia (1987)
- **Gamma Sigma Delta**, National Honor Society of Agriculture (1985)

RESOURCE DEVELOPMENT AND FUND RAISING:

- 14-year Total for College of Technology in sponsored research/project/training-internal and external combined **\$ 15 million**
- Secured cash gifts of **\$3 million** for establishing a named *Impact Laboratory* at Purdue University Northwest
- Secured cash gifts of **\$1 million** for establishing a named *Center for Innovation and Design*
- Secured 3 endowments for named laboratories; center; and student scholarships

STRATEGIC PLAN:

- Initiated and provided leadership to develop and implement College of Technology's 5-year strategic plans for 2020- 2025; 2016-2021; 2013-2018; and 2008-2013, Purdue University Northwest
- Initiated and provided leadership to develop and implement Department of Industrial Technology's Strategic Plan for 2002-2007, Purdue University, West Lafayette

FEDERAL/ EXTERNAL GRANTS:

As the Principal Investigator (PI)/ Co-Principal Investigator(Co-PI), Received **8** grants from US Department of Commerce Economic Development Administration (EDA), US Department of Labor (USDOL), National Science Foundation (NSF), and Lilly Foundation (Total, **\$5,361,229**)

Federal/External Grants received as PI/Co-PI at Purdue University Northwest, IN

- **2022: Lilly Foundation** Grant, Indiana Youth Program (2022-2025), PI, \$733,173
- **2022: Lilly Foundation** planning grant (3 months; 2022), PI, \$30,000
- **2021: US Economic Development Administration (EDA)** grant (2021-2022, # 18100067), Co-PI, \$726,389
- **2020: Higher Education Matching Award; Elevate Ventures; Co-PI, \$8,000**

- **2019** US Economic Development Administration (**EDA**) grant (2019-2021, #ED19HDQ0200062) PI, \$386,316
- **2013** US Department of Labor (**USDOL**) grant (2013-17, # 13120726), PI, \$2,741,491
- **2013**: National Science Foundation (**NSF**) ATE grant (2013-16, # DUE-1304391), Co-PI, \$764,765 (Purdue Northwest share is \$121,998)
- **2010**: National Science Foundation (**NSF**) ATE grant (2010-14, # DUE-1003668), PI, \$613,862

INTERNAL GRANTS

As the Principal Investigator (PI)/ Co-Principal Investigator(Co-PI), Received **12** grants from Purdue University

- **2006**: Purdue University F.N. Andrews fellowship to support graduate student, PI, \$15,326
- **2005**: Purdue University Special Initiative Grant to support graduate student, PI, \$3,000
- **2005**: Purdue University David Knox grant to support graduate student, PI, \$15,000
- **2004**: Purdue University fellowship grant for doctoral student (renewed), PI, \$14,000
- **2004**: PRF International Travel grant to attend conference in Fribourg, Switzerland, \$890
- **2003**: Grant from Purdue's International Programs to develop study abroad program, PI, \$7,000
- **2003**: Fellowship grant for doctoral student, PI, \$13,000
- **2002**: Fellowship grant for minority graduate student, PI, \$12,000
- **2002**: Model International Department grant to implement Study Abroad Program, PI, \$15,000
- **2001**: PRF International Travel grant to attend conference in Beijing, China, \$950
- **2000**: Lilly Endowment Retention Initiatives grant, Co-principal Investigator, \$10,565
- **2000**: Purdue University, Global Initiative Faculty grant for curriculum development, PI, \$2,500

ROLES, RESPONSIBILITIES AND ACCOMPLISHMENTS:

Interim Provost and Vice Chancellor of Academic Affairs, Purdue University Northwest, IN (2019-2020)

Purdue University Northwest (PNW) is a premier **metropolitan university** consisting of two campuses, Hammond and Westville. It is a Carnegie Master's comprehensive university serving approximately 8,800 students, with more than 70 areas of study at the baccalaureate, master's and applied doctoral levels. Academic programs are offered within six colleges that have operations on two campuses located in Hammond and Westville.

Served as the Chief academic and administrative leader of PNW to provide leadership to deliver quality academic programs, ensure student success and faculty excellence. Responsible for six academic colleges, Nursing, Engineering and Sciences, Humanities, Education and Social Sciences, Business, Technology, and Honors. Also, responsible for the followings, Institutional Research, Office of Global Engagement, Office of Research and Sponsored Programs, Center for Faculty Excellence, and Exploratory Advising.

As the interim Provost, I have set the following priorities and diligently pursued the goals for the priorities.

- Student Success and Retention
- Preparation for Higher Learning Commission (HLC) Accreditation,
- Proposal development for Applied Doctoral programs in Engineering, Technology and Psychology,
- Pilot implementation of Resource Center Budget model for the Office of Global Engagement, and
- 3-semester schedule for all academic programs.

Dean, College of Technology, Purdue University Northwest, IN (2007-present)

The College of Technology (COT) has three academic departments that offers following programs, eight Bachelor of Science (BS) degree, two Master of Science (MS) degree and Doctor of Technology. It has 45 full

time faculty and staff, including 35 tenured/tenure-track faculty members, and about 720 students, including 90 graduate students. The College typically hires 12 limited-term lecturers each semester.

Served as the chief administrative and academic leader of the college for promoting faculty teaching, scholarly work, and professional service through initiation, development, and implementation of strategic plan. Shaping, fostering, and maintaining regional, national, and international outreach/partnerships leading to academic program development. The responsibilities include, program and staff assessments, accreditation, and internal operations and external relations.

The academic programs are; Computer Graphics Technology, Computer Information Technology, Cyber Security, Construction Engineering and Management Technology, Organizational Leadership and Supervision, Electrical Engineering Technology, Mechanical Engineering Technology and Mechatronics Engineering Technology. Also, responsible for two graduate programs; Doctor of Technology (DTech) and MS in Technology

Accomplishments: (2007 August to present)

- Purdue University Northwest was recognized as the **Best University for a Technology Degree** (nine years in a row), according to Northwest Indiana Business Magazine, Spring 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014
- **New degree programs (5)** at Baccalaureate, Master's, and Doctoral levels.
 - Doctor of Technology program
 - BS degree in Mechatronics Engineering Technology
 - MS degree in Technology with 4 concentrations
 - On-Line MS degree in Technology-Technology Leadership and Management Concentration
 - MS degree in Modeling Simulation and Visualization
- **Sponsored research/project/training-internal and external combined \$15 million**
 - Received Lilly Foundation Grant (2022)
 - Received Two US Department of Commerce (**EDA**) Grant (2019, 2021)
 - Received six National Science Foundation(**NSF**) Grants (2022,2017,2013, 2012, 2010, 2009)
 - Received six National Security Agency (**NSA**) (2022, 2021,2019, 2018, 2017, 2016)
 - Received one National Institutes of Health (**NIH**) grant (2014)
 - Received one US Department of Labor (**USDOL**) Grant (2013)
- **Funding and Development (\$5 M)** activities resulted in establishment of new Laboratories and Center
 - Roberts Impact Laboratory at PNW (currently being established)
 - David Roberts Center for Innovation and Design
 - Commercialization and Manufacturing Excellence Center (CMEC)
 - Construction Engineering Technology Laboratory
 - Mechanical Engineering Technology Laboratory
 - Mechatronics Engineering Technology Laboratory
 - Center for Packaging Machinery Industry
 - Fluid Power Laboratory
 - Robotics laboratory
- **Enrollment, retention, and diversity**
 - One-year retention rate increased from 63.3% (Fall 2018) to 71.4% (Fall 2021)
 - Hispanic/Latino students increased from 20.1% (Fall 2019) to 23.5% (Fall 2022)
 - Female students increased from 14.9% (Fall 2019) to 16.3% (Fall 2022)
 - Honors students increased from 20 (Fall 2019) to 43 (Fall 2022)

Executive Director, Commercialization and Manufacturing Excellence Center (CMEC) (2014-present)

Led all activities to establish the CMEC. Secured funding from Alumni, industry, and state. The responsibilities are: 1) Manage CMEC resources, staff and budget, 2) Negotiate and authorize contracts, intellectual property

issues and related rates, and 3) Communicate the mission and goals of CMEC to regional business and industry, government agencies, civic groups, and foundations. Received US Economic Development Administration's funding to foster, "Concept to Commercialization" activities.

Interim Associate Vice Chancellor/Dean, Research & Graduate Studies, Purdue University Northwest, IN (2008- 2012)

Provided leadership for the following four areas: Graduate Programs, Sponsored Research, Undergraduate Student Research, and oversight of the three federally funded research centers: Center for Innovation in Visualization and Simulation, the Water Institute, and the Energy Efficiency and Reliability Center. I was responsible for graduate education activities pertaining to: new degree programs and courses, admissions and records operations. In the area of sponsored research, I oversee the faculty development activities for grants and contracts, pre-award and post-award support for sponsored research. Total sponsored research/projects were **75** with a value of **\$11 million** during 2010-11.

Served as the chief administrative officer for the graduate school to oversee the graduate education activities for **13 Master's Degree** programs, **1143 graduate students** that included 187 graduate student staff, development of new degree programs and courses, and graduate admissions and records operations.

Accomplishments: (2008 January to May 2012)

- **Developed** and implemented five new Master's degree programs (MS in Computer Science, MS in Technology, on-line MS in Nursing, and on-line MS in Educational Administration, MS in Modeling, Simulation, and Visualization)
- **Developed** and implemented six graduate certificate programs (Forensic accounting, Biotechnology, Engineering Management, and Organizational Leadership and Supervision, Lean six sigma, Database management)
- **Increased** Purdue University Northwest graduate enrollment by 17.6% from 972 (fall 2008) to 1140 (fall 2011) in 3 years
- **Initiated** university level Graduate Assistantship to foster diversity in graduate students' recruitment
- Implemented electronic graduate faculty certification process, and electronic plan of study
- **Appointed** three staff, Director of Graduate Studies, Coordinator of Undergraduate Research, Coordinator for LSAMP
- **Hired** 4 clerical staff in Research and Graduate Studies office

Assistant Dean, Budget and Administration for Statewide Technology, College of Technology, Purdue University, West Lafayette, IN (2006-2007)

Administered academic programs and managed budget at 10 statewide (Indiana) locations with 1350 students, 56 full-time faculty and staff, and an operating budget of 10 million dollars. Responsible for strategic planning, academic program development and academic program growth, faculty professional development, budget planning, reviewing, allocating, and approval of expenditure.

Accomplishments: (2006 July -2007 July)

- **Developed and implemented** BS Industrial Technology programs for Purdue's statewide locations and also to be offered at Vincennes University; increased enrollment at the locations
- **Optimized** the location operations and the fiscal management that resulted in savings of more than \$500,000 cash for contingency

Head, Department of Industrial Technology, Purdue University, West Lafayette, IN (1999-2006)

Note: The department name changed to Technology Leadership and Innovation

Served as the chief academic and administrative officer and was responsible for budgeting, personnel

management, faculty and student recruitment, development and mentoring, new program development, promotion and marketing, partnership with industry, fund raising, and student and alumni relations. The department had a total of 14 faculty and staff that included ten tenured/tenure-track faculty members, two secretarial staff, one Weekend Master's Degree Program coordinator, and one academic advisor. The department had an undergraduate enrollment of 250 students; 29 Master's students and 5 Ph.D. students.

Accomplishments: (1999 July- 2006 July)

- Developed four **new programs**
 - **B.S. Industrial Technology** (General Option) implemented at Purdue's Statewide Technology
 - **Biotechnology minor** in partnership with the following academic departments Biology, Pharmacy, and Agriculture
 - A 29-credit-hour **Certificate program** in Industrial Technology for industry (with Subaru of Indiana)
 - An **Integrated Study Abroad** Program in Technology Education with Griffith University, Australia
- Four new **instructional and research laboratories** in partnership with industry
 - Applied Ergonomics Laboratory with Aviation Technology
 - Biometrics standards and Performance Assurance Laboratory with industry partners
 - Technology education laboratories with DEPCO, Inc.
 - Supply Chain Management Technology laboratory with industry partners
- Technology Education program was **ranked #1** nationally
- Industrial Technology **faculty members have been recognized/received** awards at the University level, and professionally at the regional and national levels. These include the following; Book of Great Teachers (1); University Faculty Scholar (1); NAIT Outstanding Professor of Industrial Technology (1); Distinguished Graduate Faculty Service Award (2)

Director, Weekend Master's Degree Program, Purdue University, West Lafayette, IN (2001-2006)

(2001-2006) Graduated **8 cohorts** of graduate students in the program. Under a negotiated contract, started a new **cohort at Rolls Royce** Company for their employees in Indianapolis.

Coordinator, Engineering Technology Degree Program, Northern Kentucky University, KY (1996-1999)

(1996-1999) Coordinated 2 engineering technology programs, electronics engineering technology, and manufacturing engineering technology. Provided leadership for the initial successful program accreditation by Technology Accreditation Commission of ABET; received a total faculty project/teaching and learning grant of \$7700 (1990-2000); received a total equipment and software grant of \$7600 (1990-1999)

Director, Technical Services Institute, Northern Kentucky University, KY (1996-1999)

(1996-1999) Initiated, developed, and offered a 27-week industrial maintenance training program and 3-day Computer Aided Drafting training to employees of manufacturing industries in Northern Kentucky Region; Brought in a total revenue of \$55,000

PROFESSIONAL SERVICES AND ACTIVITIES:

- **Chair**, ABET Executive Committee of Applied and Natural Sciences Accreditation Commission(ANSAC), 2022-23
- **Board member**, SME (Society for manufacturing Engineers) accreditation and education committee, 2008-present
- Member, **Executive Committee**, ANSAC of ABET, 2016 present
- Member of the **ASEE Hall of Fame Committee**, American Society for Engineering Education(ASEE), 2021-present
- Board Member, **Engineering Technology Division**, American Society for Engineering Education (ASEE), 2016-2018
- **External evaluator** for Master's degree programs, University of Memphis (2016), University of North Texas. (2017)

- Served as the **external evaluator of promotion and tenure** dossier for faculty members at, Texas A & M University, Pennsylvania State University, Southern Illinois University, Iowa State University, Old Dominion University, Robert Morris University, Arizona State University, University of Houston East Carolina University, Western Michigan University
- Member, **Diversity Committee**, American Society for Engineering Education (ASEE), 2013-2015
- Director (nationally elected), **Engineering Technology Council** (2010-2014)
- Panel Member, Committee of Visitor (COV), **National Science Foundation**(2012)
- Panel member, **National Science Foundation** DUE-ATE grants(2010)
- **Commissioner**, ANSAC of ABET 2012-present.
- **Commissioner**, Engineering Technology Accreditation Commission (ETAC) of ABET 2007-2012.
- Member of the Board, **Purdue Technology Center** of Northwest Indiana (2007-2015)
- Member of the Board, **Hammond Innovation Center**-Indiana. (2007-2010)
- Editor-in-Chief, **Journal of Engineering Technology** (JET) 2005-2007
- ETAC/ABET **Program evaluator** for Manufacturing Engineering Technology and Mechanical Engineering Technology, Engineering Technology Accreditation Commission(ETAC) of ABET, 1999-Present
- NSF **National Visiting Team** member, 2003-2006
- Director (Secretary), **Executive** Board, Engineering Technology Leadership Institute (**ETLI**), 1998-2002.
- Chair, **Executive Board**, National Association of Industrial Technology (NAIT, presently ATMAE), 2002-2003
- Program Chair, **Engineering Technology Division** (ETD), ASEE Conference on Industry Education Collaboration (CIEC), 2003
- President, **University Division**, National Association of Industrial Technology (**NAIT**), 2002
- Certified as a **Senior Industrial Technologist (CSIT)** by NAIT, 1995
- Director, **Region I, University Division**, NAIT (1999-2000)
- Chairman, Cincinnati Section, American Society of Mechanical Engineers(**ASME**), 1998, 1999
- Member, **Regional Operating Board**, Region V, **ASME**, 1997, 1998, 1999
- Session Chair, **CIEC** (1994, 1997, 2001, 2002), **ASEE** (1998, 2000)
- Reviewed **Textbook manuscript** for McGraw Hill, Prentice Hall, Delmar Publishers
- **Reviewer** for *Journal of Industrial Technology* and *Journal of Engineering Technology*

INTERNATIONAL EXPERIENCE:

- Evaluated Applied and Natural Science programs in **India** as an International Team Chair for Applied and Natural Science Accreditation Commission (ANSAC) under ABET (2022)
- Recruitment trip to **Saudi Arabia** (May 5- May 12) resulted in 19 number of Saudi Students communicated with PNW; Arranged formation of Alumni Club of KSA (2022)
- Virtual Evaluation of Mazoon Program in **Oman** with External Evaluators on June 1, 2022
- Evaluated Applied and Natural Science programs in **United Arab Emirates** as an International Team Chair for Applied and Natural Science Accreditation Commission (ANSAC) under ABET (2019)
- Evaluated Applied and Natural Science programs in **India** as an International Team Chair for Applied and Natural Science Accreditation Commission (ANSAC) under ABET (2018)
- Evaluated Applied and Natural Science programs in **Lebanon** as an International Team Chair for Applied and Natural Science Accreditation Commission (ANSAC) under ABET (2017)
- Visited Institute of Technology-Tallaght in **Ireland** to establish summer programs (2017)
- Visited Mazoon College in **Oman** and signed 5-year agreement to help with the OLS program delivery at the institution (2016)
- Visited Ostafalia University of Applied Sciences, Wolfenbuttel, Germany to initiate Study Abroad program, 2016
- Evaluated Engineering Technology program in **Kuwait** as an international program evaluator for Engineering Technology Accreditation Commission (ETAC) under ABET. (2014)
- Visited several Universities in **Japan** to foster faculty and student exchange that resulted in signed Memorandum of Understanding (2014)
- Visited Shanghai University and Donghua University in **China** to established faculty and student exchange

- program that resulted in two visiting faculty from China at PNW in the Fall 2013 (2013)
- Visited Dublin Institute of Technology in **Ireland** and established partnership between Engineering Technology BS degree programs (2012)
- Evaluated Engineering Technology program in **Saudi Arabia** as an international program evaluator for Engineering Technology Accreditation Commission (ETAC) under ABET. (2008)
- Visited Higher College of Technology (HCT) in **United Arab Emirates** and Abu Dhabi University to initiate 3+1 program in Engineering Technology (2008)
- Visited Zhejiang Science and Technology University in Hangzhou, China and Southeast University in Nanjing, China, and established the **faculty and student exchange** program. Under this agreement two Purdue University Northwest faculty members taught during the summer 2008, 2009, 2010, and 2011 in China (2007)
- Visited Dublin Institute of Technology and National University of Ireland-Galway to initiate faculty exchange and the **Study Abroad Program** in Technology. Traveled under a Model International Department Grant from Purdue University, West Lafayette. (2004)
- Visited Royal Melbourne Institute of Technology, **Australia**, and **Hong Kong** Polytechnic and **established** the Study Abroad Program in Industrial Distribution. Traveled under a Model International Department Grant from Purdue University, West Lafayette. (2003)
- Visited Griffith University in Brisbane, **Australia**, and established the **Study Abroad Program** in Technology Education. Traveled under a Model International Department Grant from Purdue University, West Lafayette. (2002)
- Visited the **Bangladesh** Institute of Appropriate Technology to develop curriculum materials related to appropriate technology. Traveled under a curriculum development grant from Purdue University, West Lafayette. (2000)
- Invited by Tamil-Nadu Agricultural University, **India** to provide expert help in their research on a battery-powered tiller. Traveled under a grant from Northern Kentucky University. (1997)

PROFESSIONAL AFFILIATIONS:

- Member, American Society for Engineering Education (**ASEE**), 1988-Present
- Member, American Society of Mechanical Engineers (**ASME**), 1982-Present
- Member, Society of Manufacturing Engineers (**SME**), 1994-Present
- Member, National Association of Industrial Technology (**NAIT**, renamed **ATMAE**), 1990-Present
- Member, Human Factors and Ergonomics Society (**HFES**), 2003-2006

PROFESSIONAL DEVELOPMENT:

- **Executive Leadership Forum** (2022): Attended National Centers of Academic Excellence in Cybersecurity (NCAE-C) Mississippi Gulf Coast Community College, July 27-28,
- **Executive Leadership Conference** (2022, 2013, 2011): Attended PMMI **Executive Leadership** Conference
- **Dean's ACE Leadership Academy** (2017): Attended in Washington DC on July 18-20
- **Becoming a Provost** (2012): Completed the, a year-long program sponsored by American Academic Leadership Institute (AALI) that involved, mentoring by the participant's CAO, an Experiential Plan, individual conferences with the program director, and a mid-year seminar
- **Lean Business Workshop** (2003): Attended a four-day workshop, Rockwell Automation, Milwaukee, WI
- **Applied Industrial Ergonomics** (2003): Completed a one-day workshop on at the Eastern Ergonomics Conference, New York City, NY
- **Human Factors Approach to Accident Analysis and Prevention** (2001): Completed a one-day workshop on at the Human Factors & Ergonomics Society's 45th annual meeting in Minneapolis, MN
- **Academic Leadership Program** (1999-2000): Completed the under the Committee on Institutional

- Cooperation (CIC) of Big Ten Universities at Purdue University, West Lafayette, IN
- **Summer Institute** (1998): Attended a two-day NSF-sponsored at the National Center for Advanced Manufacturing Education (NCAME) in Dayton, OH
- **Rapid Prototyping** (1998): Completed a five-day NSF training program on at Sinclair Community College, Dayton, OH
- **Automatic Data Capture** (1997): Completed a three-day NSF-sponsored training program on at Parkland Community College, Urbana, IL
- **Teaching Technology in the 21st Century** (1997): Completed a five-day NSF-sponsored training program on at Queensborough Community College, New York City, NY
- **Concurrent Engineering Design** (1996): Completed a five-day NSF-sponsored training program on at the University of Texas, Austin, TX
- **3D-Visualization Skills** (1995): Completed a 10-day NSF-sponsored training program on at Michigan Technological University, Houghton, MI
- **Instructor Training in Hydraulics with Electric Relay Control Technology** (1991): Completed five-day training program on at the Amatrol Technical Training Institute, Jeffersonville, IN

SCHOLARLY ACTIVITIES:

Published a total of **59** scholarly publications that include, book, journal articles, conference proceedings articles

Journals:

1. **Latif N.**, & Colwell, J. (2014). Assessment of Master's Program in Technology. *International Journal of Social, Management, Economics and Business Engineering*. 8(6), 1905-1908
2. Fathizadeh, M., Zahraee, M., Neff, G., Hossain, A., Higley, J., and **Latif, N.** (2014) Implementation of a New Mechatronics Engineering Technology Degree Leveraging Industry Support. *Technology Interface International Journal*. 14(1), 5-14
3. Tetteh E., **Latif N.**, McGlothlin J. & Peters J. (2009). Impacts of frequency and posture on BMI in manual handling tasks. *Human Factors and Ergonomics in Manufacturing*. 19(4), 329-343
4. Kalish, J., & **Latif, N.** (2005). Pregnant employees-special considerations for protecting their safety and health. *Professional Safety, Journal of the American Society of Safety Engineers*. 50(6), 32-36
5. Stephens, M. P., & **Latif, N.** (2005). A cross-disciplinary biotechnology initiative: A new frontier for industrial technology. *Journal of Industrial Technology*, 21(2).
6. Curtis, K., & **Latif, N.** (1999). Design, development, and implementation of a graduate program in technology. *Journal of Engineering Technology*, 16(1), 18-22.
7. **Latif, N.**, & Ehlman, S. (1995). CAD in secondary schools. *Tech Directions*, 55(1), 41-42.
8. **Latif, N.**, & Christianson, L. L. (1993). Electric tractor: Control and displays in the Electric Choremaster I. *Applied Engineering in Agriculture*, 9(1), 11-14.
9. **Latif, N.**, & Christianson, L. L. (1993). A battery-powered single-axle tractor (Abstract). *AMA Agricultural Mechanization in Asia, Africa and Latin America*, 24(4), 76.
10. **Latif, N.**, & Christianson, L. L. (1988). Cab accessibility: How important is it? *Trans. the ASAE*, 31(1), 5-8.

Conference proceedings:

11. **Latif, N** and Zahraee, M (2022). *Augmenting undergraduate Engineering Technology education through applied research*, Proceedings of the American Society for Engineering Education (ASEE) annual conference, Minneapolis, MN June 26-29, 2022. ASEE paper # 36581
12. Chandramouli, C; Nakayama, S; Zahraee, M; **Latif, N.** (2022) *Pathway to BS degree Program for Construction Trade Professionals at Purdue University Northwest*. Proceedings of the Conference on Industry Education Cooperation (CIEC), Tempe, AZ. February 9-11, 2022
13. Kulatunga, A; **Latif, N.**; Cruz, J (2022) *Discipline Specific Skill Acquisition (DSSA) for Engineering Technology First-year Students*. Proceedings of the Conference on Industry Education Cooperation

(CIEC), Tempe, AZ. February 9-11, 2022

14. Zahraee, M., & **Latif, N.** (2017). Building and Sustaining a Successful Graduate Degree in Technology. *Proceedings of the 2017 American Society for Engineering Education Annual Conference & Exposition*, June 25-28, 2017, Columbus, Ohio
15. Zaman, O, **Latif, N.**, & McLees, D. (2016). Integrating On-line Portfolios in Engineering Technology Courses. *Proceedings of the Conference on Industry Education Cooperation (CIEC)*, Austin, USA.
16. **Latif, N.**, & Wendel, S., & Zahraee, M. A., & Sikoski, A., & Bennett, R. J. (2015), Leadership Capacity Building for Manufacturing Education *Proceedings of the 2015 American Society for Engineering Education Annual Conference & Exposition*, June 14 – 17, 2015, Seattle, Washington. 10.18260/p.24393
17. **Latif, N.**, Zahraee, M, Branislav, R and Sikoski, A. (2014). Workforce Development in Mechatronics- A Three Year NSF-ATE Project. *Proceedings of the 2014 American Society for Engineering Education Annual Conference & Exposition*, June 15 – 18, 2014, Indianapolis, Indiana.
18. Bennett, R, **Latif, N.**, Zahraee, Sikoski, A., Wendel, S., and Zahraee, M. (2014). Leadership for Manufacturing and Manufacturing-Related Programs. *Proceedings of the 2014 American Society for Engineering Education Annual Conference & Exposition*, June 15 – 18, 2014, Indianapolis, Indiana.
19. **Latif, N.**, Zahraee, M and Colwell, J. (2013). Impact of a Successful Technology Graduate Degree Program-Report on program and its graduates. *Proceedings of the 2013 American Society for Engineering Education Annual Conference & Exposition*, June 23 – 26, 2013, Atlanta, Georgia.
20. **Latif, N.**, Colwell, J. (2013). Design, Development and Implementation of a Master of Science Degree in Modeling, Simulation, and Visualization. *Proceedings of the 2013 American Society for Engineering Education Annual Conference & Exposition*, June 23 – 26, 2013, Atlanta, Georgia.
21. **Latif, N.**, Lu, J., (2012) Promoting Undergraduate Research at a Master Degree Granting Institution. *Proceedings of the London International Conference on Education (LICE-2012)* , November 19-22, London, UK
22. **Latif, N.**, Zahraee, M., Sikoski, A., Rosul, B., (2012) Manufacturing Workforce-report on NSF-ATE project pertaining to Mechatronics Technician Development. [CD-ROM]. *2012 Proceedings of the Annual Conference of the American Society for Engineering Education*, June 10-13, San Antonio, Texas
23. **Latif, N.**, Wilson, N. (2011). Industry Education Partnership: Mechatronics Engineering Technology Program Development. *Proceedings of the 2011 American Society for Engineering Education Annual Conference & Exposition*, June 26 – 29, 2011, Vancouver, BC., Canada.
24. Rosul, B., **Latif, N.**, Zahraee, M., Sikoski, A (2011) Modular Curriculum Development for Mechatronics Technicians. *Proceedings of the 2011 American Society for Engineering Education Annual Conference & Exposition*, June 26 – 29, 2011, Vancouver, BC., Canada.
25. **Latif, N.**, Hossain, A. (2009). A New Breed of Interactive and Distributed Classroom Environments for Freshman and Sophomore Technology Courses. *Proceedings of the 2009 American Society for Engineering Education Annual Conference & Exposition*, June 14 – 17, 2009, Austin, TX.
26. Hossain, A., **Latif, N.** (2008). Synchronous delivery of Engineering Technology courses to a remote location [CD-ROM]. *Proceedings of the Annual Conference of the American Society for Engineering Education*, USA.
27. Kukula, E., Elliott, S., Sutton, M., **Latif, N.**, & Duffy, V. (2008, March). Design & evaluation of the human-biometric sensor interaction method. In *Proceedings of the 9th Annual Information Security Symposium* (p. 37). CERIAS-Purdue University.
28. Lynch, A., **Latif, N.**, and Elliott, S. J., (2007) Reducing Warranty Related Costs by Direct Part Markings of Automotive Parts *Selected Papers of National Association of Industrial Technology Annual Conference*, (pp. 152-159) St. Louis, MO
29. Smith, T., **Latif, N.**, & Elliott, S. J (2007). Visual data's effect on quality and productivity at a tier one automotive components manufacturer [CD-ROM]. *Proceedings of the Annual Conference of the American Society for Engineering Education*, USA.
30. Depew, D., **Latif, N.**, Bertoline, G. R., Keating, D., Stanford, T., Dunlap, D., Tricamo, S., McHenry, A., DeLoatch, E., Palmer, H., Bennett, R., Noori, M., Snellenberger, J., Turesdale, S. (2006). Faculty reward system reform: Beginning phase II –revisiting the need for university change to advance professional graduate education for engineering practice and technology leadership. *Proceedings of the Annual*

Conference of the American Society for Engineering Education, USA

31. Keating, D., Stanford, T., Bardo, J., Dunlap, D., Depew, D., **Latif, N.**, Bertoline, G. R., Tricamo, S., McHenry, A., DeLoatch, E., Palmer, H., Noori, Mohammad, Bennett, R; Snellenberger, J. And Truesdale, S. (2006). Faculty reward system reform: Beginning phase II – Setting criteria for professionally oriented faculty in engineering and technology. *Proceedings of the Annual Conference of the American Society for Engineering Education, USA*
32. **Latif, N.** (2006). Industry partnership for Educational Program Development. *Proceedings of the Conference on Industry Education Cooperation (CIEC)*, San Antonio, TX, USA, 06, pp.ETD5-ETD8.
33. Wu, G., **Latif, N.**, and Elliott, S. J., (2005) Security solutions for CNC machine operations based on biometric security *Selected Papers of National Association of Industrial Technology Annual Conference*, (pp. 122-127) St. Louis, MO
34. Buskirk, D. D., & **Latif, N.** (2005). Project-based learning in a freshman industrial Technology course [CD-ROM]. *Proceedings of the 2005 Illinois-Indiana Section Conference of the American Society for Engineering Education*,
35. **Latif, N.**, & Stephens, M. P. (2004). Design, development, and implementation of the B.S. in industrial technology program for seven Statewide Technology locations in Indiana. *Selected Papers of the National Association of Industrial Technology Annual Conference*, Louisville, KY.
36. **Latif, N.** (2004). Integration of the study abroad program in technology education curriculum program development and implementation. *Proceedings of the 33rd International Symposium of IGIP/ASEE/IEEE*, Fribourg, Switzerland.
37. Metzinger, A., & **Latif, N.** (2003). Lean manufacturing techniques reduce lead-time for implant production [CD-ROM]. *Proceedings of the Annual Conference of the American Society for Engineering Education, USA*.
38. **Latif, N.**, & Dyrenfurth, M. J. (2002). Assessment of an innovative master's program [CD-ROM]. *Proceedings of the Annual Conference of the American Society for Engineering Education, USA*.
39. Summers, M., **Latif, N.**, & Pagano, M. (2002). Education and industry partnerships for workforce development: A Certificate Program in Industrial Technology [CD-ROM]. *Proceedings of the Conference on Industry Education Cooperation (CIEC)*, USA.
40. **Latif, N.**, & Sutton, M. J. (2001). Curriculum improvement through an industrial technology alumni survey. *Selected Papers of the National Association of Industrial Technology Annual Conference*, Dearborn, MI.
41. **Latif, N.**, & Rogers, G. E. (2001). Technology teacher education in the 21st century. *Proceedings of the 2001 China-U.S. Conference on Education*, Beijing, China.
42. **Latif, N.**, & Dunlap, D. (2000). A graduate course on computer applications in technology [CD-ROM]. *Proceedings of the Annual Conference of the American Society for Engineering Education, USA*.
43. **Latif, N.**, & Harden, T. (1999). A technology plan for instructional computing laboratories in engineering/industrial technology. *Proceedings of the UICEE 2nd Annual Conference on Engineering Education*, New Zealand.
44. Klosterman, J., & **Latif, N.** (1999). Initiation, development and implementation of automatic data capture technology in the broadcast system industry. *Proceedings of the Conference on Industry Education Cooperation (CIEC)*, USA.
45. **Latif, N.** (1999). Dimensioning through understanding geometry [CD-ROM]. *Proceedings of the Annual Conference of the American Society for Engineering Education, USA*.
46. Curtis, K., and **Latif, N.** (1998). Master of Science in technology: Program design, development, and implementation [CD-ROM]. *Proceedings of the Annual Conference of the American Society for Engineering Education, USA*.
47. **Latif, N.** (1997). Development and implementation of customized industrial training. *Proceedings of the Conference on Industry Education Cooperation (CIEC)*, USA.
48. **Latif, N.**, & Tantichalermsin, S. (1996). *Descriptive geometry using CADD-development of surfaces*. Paper presented at the Annual Conference of the American Society for Engineering Education, USA.
49. **Latif, N.**, & Robers, D. (1995). Learning CAD through understanding geometry: Lines and circles. *Proceedings of the 57th Annual Meeting of the North Midwest Section of the American Society for*

Engineering Education, USA.

50. **Latif, N.**, & Reader, Valerie. (1994). Experienced drafters with little CADD background: Employment problems and possible solutions. *Proceedings of the Conference on Industry Education Cooperation (CIEC), USA.*
51. **Latif, N.**, Cooper, Paul, & Rindlisbach, Dean. (1994). *Design, development and field-testing of a battery-powered tiller.* Paper presented at the ASAE International Summer Meeting, USA.
52. **Latif, N.**, & Ehlman, Steve. (1993). A first-year CADD course: What should be taught? *Proceedings of the EDGD Mid-Year Conference of the American Society for Engineering Education, USA*
53. **Latif, N.**, & Batshoun, Jaby. (1993). Lead acid batteries as an alternative fuel source: Current status and future trends. *Proceedings of the Annual Conference of the American Society for Engineering Education, USA.*
54. **Latif, N.**, & Lissik, E. A. (1990). *Temperature distribution in shelled corn: An experimental investigation.* Paper presented at the ASAE International Summer Meeting, USA.
55. **Latif, N.**, & Christianson, L. L. (1987). *Development of a battery powered single-axle tractor for developing countries.* Paper presented at the ASAE International Winter Meeting, USA.
56. Lissik, E. A., & **Latif, N.** (1986). A model for the movement of heat and moisture in stored grain as a result of mold respiration. *Drying' 86*, 1, 216-224. Hemisphere Publishing Corporation.
57. **Latif, N.**, & Lissik, E. A. (1986). *Respiration model for heat and moisture release during grain spoilage.* Paper presented at the ASAE International Winter Meeting, USA.
58. **Latif, N.**, & Christianson, L. L. (1984). *User factors in an electric chore tractor.* Paper presented at the ASAE International Summer Meeting, USA.
59. **Latif, N.**, Christianson, L.L., Froelich, D., Witmar, B., & Woerman, B. (1984). *Performance evaluation of commercial heat exchangers in swine buildings.* Paper presented at the ASAE North Central Meeting, USA.

Chapter in a Book

Latif, N. (2014). A new BS Degree Program: Mechatronics Engineering Technology is a University Success. In K. Campbell (Ed.), *Manufacturing Workforce Development Playbook-Preparing for the manufacturing renaissance in America* (pp.154-158). Summit Media Group. ISBN: 978-0-9903288-0-3

Book

Tetteh, E. & **Latif, N.** (2009). *Engineering approach to workspace design: Issues for the Obese Workers.* VDM Verlag Edition. ISBN 978-3-639-10396-0

Conference Presentations only

- **Latif, N.**, Lori Feldman and David Nesbitt (2016). *A cross discipline perspective on ePortfolios for Skill-Building and Career Differentiation.* Association for Authentic, Experiential and Evidence-based Learning (AAEEBL) Conference, August 1-4, Boston, MA
- **Latif, N.** (2015). *Workforce Development in Advanced Manufacturing-A Progress Report on a USDOL Project.* Hi-Impact Technology Exchange Conference, July 27-30, Portland, Oregon.
- **Latif, N.** (2013). *Faculty Professional Development at a Master's Degree Granting Institution.* Paper presented at 2013 ICAME, August 28-29, Melaka, Malaysia
- **Latif, N.**, & Kashaf, A. (1997). *Concurrent engineering design: Course development and its implementation.* Paper presented at the Annual Conference of the American Society for Engineering Education, USA.
- Kashaf, A., & **Latif, N.** (1997). *Teaching graphics principles through solid modeling in introductory CAD courses.* Paper presented at the Annual Conference of the American Society for Engineering Education, USA.
- Gray, J., & **Latif, N.** (1995). The design, development and implementation of training program dealing

with industrial maintenance. *Abstract, 28th Annual Convention of NAIT (currently ATMAE), USA.*

International Keynote Addresses, seminar presentations, and national level panel member

- Made a **virtual presentation** to ABET symposium on ANSAC: Criteria 5 on Culminating Experience, April 13, 2022
- **Panel Judge** Region 6 pitch competition of Innovate WithIN, April 18, 2022
- **Media Interview** related to Cybersecurity degree with Chris Nolte at, “Regionally Speaking broadcast”, Lakeshore Public Media, April 19, 2022; <https://www.lakeshorepublicradio.org/show/regionally-speaking/2022-04-19/regionally-speaking-april-19-2022>.
- **Panelist** (with H. Carter, P. Hill, D. Urban) for APLU-IEP Web Workshop on, How to Make IEP and Economic Engagement Relevant to Faculty, December 15, 2021
- **Panelist** (with H. Allen of mHUB; C. Brown of MxD, and E. Staley) for the session, “Innovation in Manufacturing” October 12, 2021 hosted by Alliance for Regional Development
- **Judge** (with D. Watkins, J. Rizzo, K. Burton) for Innovate WithIN Region 6 Pitch Competition, April 20, 2021
- **Panelist** (with R. Johnson, K. Jiang, S. Silk) for the session, “The Other Side- Cyber Security,” March 22, 2021 hosted by Purdue University Northwest
- **Keynote speaker** at International Webinar on, “*Impact of New Normal on Organizational Performance*”, Mazoon College, Oman, December 20, 2020
- **Commencement Speaker**, Mazoon College, Muscat, Oman (2019)
- **Invited speaker** at the Consortium for Rapid Smart Grid Impact in Colombo, Sri Lanka. Presented topic on “*University Research-Commercialization of Ideas and Innovation*” (2018)
- **Panel member**, session: *Future Forces-Winning through Collaboration*. 4th Annual Summit on Regional Competitiveness. Federal Reserve Bank of Chicago, IL. November 17, 2016.
- **Panel member**, session: “*Leadership Capacity Building for Manufacturing and Manufacturing-related Programs*. American Technical Education Association (ATEA) 53rd National Conference, Alabama, March 9-11, 2016
- Made a presentation on, “*Packaging Industry focused Mechatronics Program*” to students at Donghua University in China (2013)
- **Panel speaker** on “*How Mechatronics Education is Responding to Industry Needs.*” Hi-Impact Technology Exchange Conference, July 21-24, Austin Texas. (2013)
- **Panel speaker** on “*Mechatronics Program Development through Industry partnership.*” ASEE Main Plenary I- “Keeping it Real -- Preparing Students for Industrial Practice”, 2012 ASEE annual Conference, June 11, San Antonio, TX (2012)
- **Keynote address** on “*Quality Assurance in Engineering Education*”, at the International Conference on Mechanical Engineering and Renewable Energy (ICMERE), Dec.22-24, Chittagong, Bangladesh. (2011)
- **Keynote address** at a seminar on “*Higher Education in the U.S.*” invited by the Chittagong University of Engineering and Technology, Bangladesh. (2010)
- **Keynote address** at a seminar on “*International Cooperation in Higher Education-Quality Education*” invited by the University of Asia Pacific in Bangladesh. (2008)
- **Keynote address** at 2nd UICEE (UNESCO International Conference on Engineering Education) in Auckland, New Zealand. The topic was “*A Technology Plan for Instructional Computing Laboratories.*” Traveled under a project grant from Northern Kentucky University. (1999)
- **Presented** a three-day seminar for RMIT University, Melbourne, Australia on Production and operations management at RMIT campus in Singapore. (2005)

SUPERVISION OF GRADUATE STUDENTS

Served as the major professor/committee members for 6 Ph.D. students and 23 Masters students

Supervision of Ph.D. Research (Advisor and Chair):

Student: Edem Tetteh
Area of study: Human Factors in Manufacturing
Project title: *"A pilot Laboratory Study of EMG Back Activity Among Normal Versus Overweight Workers During Material Handling on Multi-Level Racks"*
Graduation date: Ph.D. August 2007, Purdue University, West Lafayette

Student: Julia Kalish
Area of study: Human Factors in Manufacturing
Project title: *"Modeling and Simulation of Pregnant Employees"*
Graduation date: Ph.D. May 2005, Purdue University, West Lafayette

Ph.D. Committees served

Student: Eric Kukula (Committee member)
Area of study: Human Factors in Biometrics
Project title: *"Design and evaluation of the human-biometric sensor interaction (HBSI) method"*
Graduation date: Ph.D. August 2008, Purdue University, West Lafayette

Student: J. R. Lee (Committee member)
Area of study: *The effects of safety information on flight students' aeronautical decision making*
Graduation date: Ph.D. May 2005, Purdue University, West Lafayette

Student: Ed Lazaros (Committee member)
Area of study: *An analysis of the relevance and severity of cited problems in technology education as identified by Indiana teachers.*
Graduation date: Ph.D. August 2005, Purdue University, West Lafayette

Student: Robert Karban, Jr. (Committee member)
Area of Study: Manufacturing
Project title: *"The Effects of Intensification Pressure, Gate Velocity, and Intermediate Shot Velocity on the Internal Quality of Aluminum Die Casting"*
Graduation date: Ph.D. (December 2000), Purdue University, West Lafayette

Supervision of Master's Degree Projects (Advisor and Chair)

Student: Jeff Totsch
Project title: *Study of Electronic Grading vs. Traditional Grading of Engineering Drawings in a High School Drafting Class*
Graduation date: M.S. (May 2010), Purdue University, Northwest

Student: Anthony Lynch
Project title: *Reducing Warranty Related Costs by Direct Part Marking of Exhaust components*
Graduation date: M.S. (May 2006), Purdue University, West Lafayette

Student: Thomas Smith
Project title: *Visual Data's Effect on Quality and Productivity at a Tier One Automotive Components Manufacturer*
Graduation date: M.S. (May 2006), Purdue University, West Lafayette

Student: Mark Carlson
Project title: *Implementing a Maintenance Replacement Parts System Using AIDC technologies*
Graduation date: M.S. (May 2006), Purdue University, West Lafayette

Student: Robert Burris
 Project title: *Lean Manufacturing-Waste Reduction through Analysis of Historical Data*
 Graduation date: M.S. (May 2006), Purdue University, West Lafayette

Student: Naveed Quereshi
 Project title: *An Exploratory Investigation of Factors that Enable the Governments of Developing Nations to use Open Source*
 Graduation date: M.S. (May 2006), Purdue University, West Lafayette

Student: Daniel Wood
 Project title: *Increased Productivity through a More Efficient Plant Layout*
 Graduation date: M.S. (August 2003), Purdue University, West Lafayette

Student: Anthony J. Metzinger
 Project title: *Lean Manufacturing Techniques Reduce Lead-Time for Implant Production*
 Graduation date: M.S. (August 2002), Purdue University, West Lafayette

Student: David M. Purdy
 Project title: *High Speed Machining of Gray Cast Iron Engine Block*
 Graduation date: M.S. (August 2002), Purdue University, West Lafayette

Student: Jack Klosterman
 Project title: *Initiation, Development, and Implementation of Automatic Data Capture Technology in the Broadcast System Industry*
 Graduation date: M.S. (December 1998), Northern Kentucky University.

Graduate Committees Served (Master's Degree):

- Project title: *Scan-to-Print: Evaluating the effectiveness of an AIDC Technology used to improve product quality, inventory, and distribution.* Orville Meredith, M.S., Purdue University, West Lafayette, 2004
- Project title: *Fingerprint Sensor Degradation.* Christopher Hernandez, M.S., Purdue University, West Lafayette, 2004
- Project title: *Application of an LP Model to Assess Warehouse Space Needs.* Sorraya Khiewnavawongsa, M.S., Purdue University, West Lafayette, 2004
- Project title: *Project Plan Development for 5S Implementation.* Benjamin Robertson, M.S., Purdue University, West Lafayette, 2003
- Project title: *Testing Effects of Functional Noise on Voice Recognition Rates in a Telematics System.* Deryck C. Raymond, M.S., Purdue University, West Lafayette, 2003
- Project title: *An Evaluation of Fingerprint Quality Across an Elderly Population vis-à-vis 18-25-year-olds.* Nathan C. Sickler, M.S., Purdue University, West Lafayette, 2003
- Project title: *Age-based Usability for the World Wide Web.* Ty Tabernik, M.S., Purdue University, West Lafayette, 2002
- Project title: *Computer Hardware Asset Management: A Six Sigma Approach to Business Process Improvement.* Donald N. Wentworth, M.S., Purdue University, West Lafayette, 2002
- Project title: *Part Traceability Using Direct Part Marking (DPM) and Automatic Data Capture (ADC) Technology.* Scott D. Worrell, M.S., Purdue University, West Lafayette, 2002
- Project title: *Linking Human Factors Engineering to Failure Modes and Effect Analysis.* Jennifer C. Hoag., M.S., Purdue University, West Lafayette, 2002
- Project title: *Design of a user-friendly SOLAR FX model.* Frazier Glenn, M.S., Purdue University, West Lafayette, 2000.
- Project title: *Symbol Palm Pilot Tool Crib Software Control Solution.* H. Hassan, M.S., Purdue University, West Lafayette, 1999

- Project title: *Field Force Automation in Pharmaceutical Sales*. Matthew Sues, M.S., Purdue University, West Lafayette, 1999

INDUSTRIAL EXPERIENCE:

- **1992-1999:** (Part-time) Designer, Advanced Insulation Concept, manufacturer of insulated doors and buildings, Florence, Kentucky
- **1979-1981:** Resident Mechanical Engineer, construction industry, supervised the maintenance of equipment and machinery for building and bridge construction, Dhaka, Bangladesh
- **1977-1979:** Assistant Mechanical Engineer, construction industry, supervised the installation of 130-ton chilled-water air-conditioning system, Dhaka, Bangladesh

COMMITTEE WORK:

Purdue University, Northwest (2007 to present)

- Chair of Deans search committees (2022, 2018)
- Member, Facilities Planning Committee 2007-present
- Member, Promotion and Tenure Committee 2007-present
- Member, Program Analysis Committee 2014
- Member, Academic Computing Council 2007-2010
- Member, Task force for Faculty Load, 2010

Purdue University, West Lafayette

- Member, Purdue University Graduate council, 2008-2010(Ex. Officio, as PNW Graduate Dean)
- Member, Area Committee A, Graduate Council, Purdue University, West Lafayette 2008-2010
- Member, Task Force to review the use of credits in Combined Degree Programs and Dual Degree Programs, 2009-2010

In addition, I have served on several committees at the following institutions: Louisiana State University-Eunice (LSUE), Northern Kentucky University (NKU), Purdue University Northwest (PNW), and Purdue University, West Lafayette (PU)

- Member, Campus Diversity Council (PNW)
- Member, Student Success Committee(PNW)
- Member, Steering Committee, Foundation of Excellence(PNW)
- Chair, search committee for the Dean of School of Management (PNW)
- Chair, search committee for the Vice Chancellor for Advancement (PNW)
- Chair, search committee for Department Head of Computer Graphics Technology (PU)
- Chair, search committees for Location Directors at Purdue's Statewide Technology locations, New Albany and Indianapolis (PU)
- Chair, College of Technology's Grade Appeal Committee (PU)
- Promotion and Tenure committees (NKU, PU, PNW)
- Curriculum committees (LSUE, NKU)
- ABET accreditation committee (NKU)
- Faculty search committees (NKU, PU)

COMMUNITY INVOLVEMENT:

- Rotary Club of Munster, Indiana
- Chamber of Commerce, Munster, Indiana
- The Society of Innovators of Northwest Indiana
- Hammond INnovation Center

TEACHING ACTIVITIES:

Taught 16 undergraduate courses, 6 graduate courses

Undergraduate

Purdue University, West Lafayette

| Course | Title | Frequency |
|--------|--------------------------|-----------|
| IT 385 | Industrial Ergonomics | 3 |
| IT 214 | Survey of Technology | 3 |
| IT 450 | Production Cost Analysis | 1 |

Northern Kentucky University

| Course | Title | Frequency |
|---------|---|-----------|
| IET 110 | Introduction to Technology | 5 |
| IET 112 | Technical Graphics | 6 |
| IET 212 | Computer Aided Drafting and Design (CADD) | 28 |
| IET 312 | Descriptive Geometry | 4 |
| IET 412 | Advanced CADD | 2 |
| ATS 450 | Thermodynamics and Heat Power | 8 |
| ATS 361 | Fluid power | 8 |
| ATS 300 | Statics | 4 |

Louisiana State University-Eunice

| Course | Title | Frequency |
|-----------|-----------------------------|-----------|
| CE 2450 | Statics | 2 |
| ENGG 2180 | Introductory CADD | 5 |
| ENGG 2181 | Intermediate CADD | 2 |
| ENGR 1001 | Introduction to Engineering | 3 |
| ENGG 1001 | Engineering Graphics | 4 |

Graduate

Purdue University, Northwest

| Course | Title | Frequency |
|-----------|--------------------------------------|-----------|
| TECH 581R | Technology from a Global Perspective | 1 |

Purdue University, West Lafayette

| Course | Title | Frequency |
|-----------|---|-----------|
| TECH 527* | Technology from a Global Perspective | 3 |
| TECH 621* | Seminar in Technology | 2 |
| TECH 590 | Special Problems in Industrial Technology | 5 |

**Team taught*

Northern Kentucky University

| Course | Title | Frequency |
|---------|---|-----------|
| MST620 | Computer Aided Eng. & Industrial Design | 1 |
| MST 614 | Computer Applications in Technology | 2 |