ULAN DAKEEV

Engineering Technology, Sam Houston State University, 1019 Bowers Blvd, Huntsville, TX 77340.
Phone: 936-294-1201. Email: uxd003@shsu.edu

EDUCATION

- PhD. Technology, University of Northern Iowa, 2013
- M.S. Industrial Management, University of Northern Iowa, 2011
- B.S. Industrial Engineering, International Black Sea University, Georgia, 2004

PROFESSIONAL EXPERIENCE

Aug 2019-	Present	Assistant Professor, Sam Houston State University, Huntsville, USA
Oct. 2015-	Aug 2019	Assistant Professor, Texas A&M University-Kingsville, Kingsville, USA
Sept. 2013 -	Oct 2015	Lecturer, University of Michigan – Flint, USA
April 2010 -	Sept 2013	Design Engineer (PTS) CI, John Deere, USA
Sept 2009 -	May 2013	Graduate Assistant (Teaching Assistant), University of Northern Iowa
Sept 2004 -	Aug 2009	Computer Science & Mathematics Teacher, Nigerian Tulip International Colleges, Nigeria

SELECTED AWARDS AND CERTIFICATES

NCCER Certified Instructor (Card Number 18631750)
Nominated for the Chancellor's Academy of Teacher Educators Award through the TAMU System
Curricular Service-Learning Research Grant, Texas A&M University – Kingsville, 2018
ICARE Grant, Texas A&M University – Kingsville, 2017
Professor of the Year Award, Texas A&M University – Kingsville, 2016
Curricular Service Learning Research Grant, Texas A&M University – Kingsville, 2016
Innovator of the Year Award by the Instructional and Distance Learning, TAMUK, 2016
Certificate of Appreciation for the service at International Association of Journals and Conferences, Orlando, FL, 2016
Graduate Student Research Grant, 2012
1st Place Award, University of Northern Iowa Symposium, 2011
Graduate Student Research Grant, 2011
Teacher of the year certificate, Nigerian Tulip International Colleges, 2009
Excellent performance and commitment plaque, Nigerian Tulip International Colleges, 2009
Gold medal, International ICT Olympiad, Ankara/Turkey 2007
1st Place Award in Biology Olympiad, Isik Gol/Kyrgyzstan 1999
1st Place Award in Biology Olympiad, Isik Gol/Kyrgyzstan 1998
Silver medal, International Junior soccer team coach, Izmir/Turkey 2008

SUBMITTED GRANT PROPOSALS

Halliburton Foundation - $30,830.37 Awarded (CoPI)
NSF-HIS Grant, National Science Foundation - $2,392,470 Awarded (Sen.Personnel)
The Guadalupe and Lilia Martinez Foundation - $28,848 Awarded (CoPI)
Research Experience for Teachers (RET 17575-NSF), 2018, $599,984.00 – Pending (PI)
CAREER (NSF), 2018, $520,784.00 – Pending (PI)
Curricular Service Learning Research Grant, Texas A&M University – Kingsville, 2018, $9000 – Awarded (Co-PI)
TCUR – TAMUK Council of Undergraduate Research, Texas A&M University – Kingsville, 2018-Pending, $4836.09 (PI)
National Institute of Standards and Technology, 2018, $74,583 – Pending (Co-PI)
ICARE Grant, Texas A&M University – Kingsville, 2017, $5,000 – Awarded (PI)
Curricular Service-Learning Research Grant, Texas A&M University – Kingsville, 2016, $8394 – Awarded (PI)
Curricular Service Learning Research Grant, Texas A&M University – Kingsville, 2017, $9000 – Pending (PI)
CAREER (NSF), 2017, $780,092.00 – Not Funded (PI)
National Institute of Standards and Technology, 2017, $74,583 – Not Funded (Co-PI)
Blinn S-STEM (NSF), 2017, $4,984,586 – Pending (Co-PI)

iTECH-STEM (NSF), 2017, $300,000 – Pending (Domain Expert)
TCUR (TAMUK), 2016, $5000 – Not Funded (PI)
Motorola Solutions Foundation, 2016, $50,000 – Not Funded (PI)
Submitted NSF Proposal for STEM Education, 2016 – Not Awarded (PI)

TRANSLATION EXPERIENCE

Turkish – Russian, Caterpillar, Georgia 2002
Turkish – English, Biag Group, USA 2013
Turkish – Russian, Turkish Airlines, Georgia 2003

SKILLS

Software: MS Office Package: *MS Word, Excel, Power Point, Front Page, Visio*, *Shop, Adobe Flash*, Photoshop*, Corel Draw*, *Ulead Video Studio, After Effects, Camtasia, 3D Studio Max, Maya, Creo Parametric(ProE), SolidWorks, Unity, Augmented Reality, AutoCAD, Revit*

Language:

Kyrgyz (Native), Russian (Native), English (Fluent), Turkish (Fluent), Georgian (Intermediate)

TOTAL NUMBER OF CITATIONS-18 (4 OF 18)

1. International Science and Research Journal. 5(36), June 2015, Vol 2. Russian Citation
2. Nalawade, D.B, Divekar, R.S., Chandgude, N. R. & Bhagwat, P.B. (2016). An Experimental study of wind power generation with wind tunnel attachment. International Journal of Research in Advent Technologies (E-ISSN:2321-9637) Special Issue National Conference "NCMMM-2016", 19 March 2016.
3. Ford, S. & Minshall, T. (2017). 3D Printing in Teaching and Education: A Review of Where and How it is used. Journal of Additive Manufacturing. October 2017 – Cited article 15
4. Ford, S. & Minshall, T. (2017). 3D Printing in Teaching and Education: A Review of Where and How it is used. Journal of Additive Manufacturing. October 2017 – Cited article 2

SELECTED PUBLICATIONS

1. Pecen, R., Yildiz, F., & **Dakeev, U**. (2019). "*Integrating Geothermal Energy Education to an Engineering Technology Curriculum*." ASEE Annual Conference, 2019, Tampa, FL
2. **Dakeev, U**., Yildiz, F., Pecen, R., Alam, S. & Heidari, F. (2018). "*How an Augmented Reality Tool May Benefit to Improve Spatial Cognition*." International Association of Journals and Conferences. 2018
3. **Dakeev, U**., Pecen, R. & Yildiz, F. (2018). "*Development of Virtual Environment to Introduce Spatial Reasoning to First and Second Year Engineering Students*." ASEE Annual Conference, 2018, Salt Lake City, UT
4. Yildiz, F. & **Dakeev, U**. (2018). "*Development of Augmented Reality Tool to Involve Children in Engaged Learning"*. ATMAE Annual Conference, 2018, Kansas City, MO **Dakeev, U**., Yildiz, F, Pecen, R. & Heidari, F. (2018). "*Development of Project Based Instrumentation Course for a Technology Program"*. ATMAE Annual Conference, 2018, Kansas City, MO
5. **Dakeev, U**., Pecen, R., Yildiz, F., Heidari, F. & Ozen, A. (2018). "*Student Spatial Orientation Improvement in Introductory CAD courses with the Integration of 3D printing and CNC technologies".* Conference for Industry and Education Collaboration, 2018, San Antonio, TX
6. **Dakeev, U**. & Pecen, R. (2017). "*Investigation of Spatial Orientation of Freshmen Level Engineering Students with the Introduction of Additive and Subtractive Manufacturing*". Journal of International Ergonomics.
7. **Dakeev, U**., Heidari, F., Yildiz, F.& Yilmaz, M. (2017). "*Curriculum Service Learning Workshop for STEM Outreach".* ASEE Annual Conference, 2017, Cincinnati, OH
8. **Dakeev, U**., Heidari, F. & Yildiz, F. (2017). "*Augmented Reality in the Classroom: Development of a stationary bicycle with virtual environment for new learners".* ATMAE Annual Conference, 2017, Cincinnati, OH
9. **Dakeev, U**., Yildiz, F. & Goksu, M. (2017). "*Experimental Projects to Demonstrate Reliability and Viability of Potential Renewable Energy Sources*". ATMAE Annual Conference, 2017, Cincinnati, OH
10. **Dakeev, U**. & Yildiz, F. (2017). "*Building Affordable Laboratory Equipment to Conduct Energy Experiments for Alternative Energy Classes*". ATMAE Annual Conference, 2017, Cincinnati, OH

11. Heidari, F. & **Dakeev, U**. (2017). "*Implementation of Advanced Technology Training for the Manufacturing Workforce*". ATMAE Annual Conference, 2017, Cincinnati, OH
12. Shah, A. & **Dakeev, U**. (2017). "Study of a Non-API Flange". Proceedings of the ASME 2017 International Mechanical Engineering Congress and Exposition. IMECE2017, Tampa, FL
13. **Dakeev, U**., Heidari, F., Yildiz, F., Dimitrovska, M., & Baltaci, K. (2016). "*Comparative Study of Custom – constructed Wind Augmentation Shrouds on a Small-scale Wind Turbine".* ASEE Annual Conference, 2016, New Orleans, LA
14. Yildiz, F., Suh, M.J., Coogle, K. L., **Dakeev, U**., & Baltaci, K. (2016). "*Design and Development of a Grid-Tied Solar Photovoltaic Training Infrastructure".* ASEE Annual Conference, 2016, New Orleans, LA
15. **Dakeev, U**., Heidari, F., & Dimitrovska, M. (2016). "*Analysis of Custom-Constructed Wind Augmentation Shrouds on a Small-Scale Wind Turbine".* Portland International Center for Management of Engineering and Technology (PICMET). Honolulu, HI
16. **Dakeev, U**., Heidari, F., Yildiz, F., Elukurthi, S (2016). "*A Comparative Study of Motivation and Learning Strategies between Public and Private High School Students of India and US".* ATMAE Annual Conference, 2016, Orlando, FL
17. Heidari, **Dakeev, U**. & Elukurthi, S (2016). "S*imulation of Industrial Facility Layout Using Pro-Model Software".* ATMAE Annual Conference, 2016, Orlando, FL
18. **Dakeev, U**., Heidari, F., Kasibhatla, B. (2016). "*Analysis of a Custom Constructed Wind Augmentation Device with 30 Degree Inlet Section to Improve Wind Power Generation". IAJC/ISAM* International Conference/Journal, 2016, Orlando, FL
19. **Dakeev, U**., Heidari, F., Yildiz, F., Bijapur, M., M., & Yanamala, S. (2016). "*Comparative study of various custom constructed wind augmentation shrouds for optimal design". IAJC/ISAM* International Conference/Journal, 2016, Orlando, FL
20. **Dakeev, U.,** Yildiz, F., Bartle, L., (2015). "*Motivation & Learning Strategies of Students in Turkey*". ATMAE Conference, 2015, Pittsburgh, PA
21. Yildiz, F., **Dakeev, U.,** Goksun, M., (2015). "*Implementation of Rapid Prototyping Technologies in Multidisciplinary Coursework and Research Applications*". The Association of Technology, Management, and Engineering Conference, 2015, Pittsburgh, PA
22. **Dakeev, U.,** Lam, C., Pung, J. (2015). "*Analysis of Wind Power Generation with Wind Guide Attachment".* International Journal of Engineering Research and Innovation. ISSN:2152-4165, Vol 7,1,43-47
23. **Dakeev, U**., Mazumder, Q., Yildiz, F., Baltaci, K. (2015). "*Motivation and Learning Strategies of Students in Kyrgyzstan".* ASEE Annual Conference, 2015, Seattle
24. Mazumder, Q. **& Dakeev, U**., (2015). "*Are High School Students More Motivated than College Students".* ASEE Annual Conference, 2015, Seattle
25. **Dakeev, U**., Mazumder, Q., Yildiz, F., Baltaci, K., (2015). "*Design and Development of a New Small-Scale Wind Turbine Blade".* ASEE Annual Conference, 2015, Seattle
26. Yildiz, F., **Dakeev, U.,** Baltaci, K., (2015). "*Energy Harvesting with Piezoelectric Devices through Air Conditioning Condensers".* ASEE Annual Conference, 2015, Seattle
27. Baltaci, K., **Dakeev, U.,** Yildiz, F., (2015). "*Development of a General Education to Broaden the Knowledge of College Students in Renewable Energy and Sustainability".* ASEE Annual Conference, 2015, Seattle
28. Dakeev, U., Karatas, I.H., (2015). "*Motivation and Learning Strategies of Students in Turkey*". ASEE NCS Conference, 2015, Cincinnati, OH
29. **Dakeev, U**., Lam, C., Pung, J. (2014). "*Analysis of Wind Power Generation with Wind Guide Attachment".* IAJC/ISAM International Conference, ISBN 978-1-60643-379-9, 2014
30. **Dakeev, U**., Mazumder, Q. " Analysis of Wind Power Generation with Application of Wind Tunnel Attachment, ASEE 2014-8501, 121st ASEE Annual Conference, June 13-15, 2014, Indianapolis, USA
31. **Dakeev, U**., Yuksek, B., (2014). "*Management of Urban Parking Lot Energy Efficiency with the Application of Wind Turbine and LED lights"* Bulletin of Electrical Engineering and Informatics, Vol 3.No. 1, March 2014, pp. –14, ISSN: 2089-3191
32. **Dakeev, U**., (2012) *"Secure and Efficient Management of Wind Power Generation with the Application of Wind Tunnel Attachment on a Wind Turbine".* ATMAE Annual Conference, Cleveland, USA

33. **Dakeev, U**., (2011). "*Management of Wind Power Generation with the Attachment of Wind Tunnel".* IBSU Scientific Journal, Vol. 5 No.2, pp 71-82, 2011, ISSN: 1512-3731
34. Pecen, R., **Dakeev, U.**, Yildiz, F., Yuksek, B., Baltaci, K., (2012). "*Design and Implementation of a 10KW Wind Power and Instrumentation System".* 199th ASEE Annual Conference, 2014, Texas, USA
35. **Dissertation,** University of Northern Iowa, Cedar Falls, USA, 2013
    Analysis of Wind Power Generation with Application of Wind Tunnel Attachment
36. **MS Thesis,** University of Northern Iowa, Cedar Falls, USA, 2011
    Management of Wind Power Generation With the Attachment of Wind Tunnel

INDUSTRIAL EXPERIENCE

Continuous Improvement Design Engineer, John Deere, April, 2010- August, 2013

BOOKS

- Introduction to Engineering, An Assessment and Problem Solving Approach, Chapter 4-Computer Aided Design, Chapter 10-Probability and Statistics. CRC Press, ISBN: 978-1-4987-4748-6, 2016
- Wind Energy: Tunnel and Turbine: Applied Experimental Research, Lambert Academic Publishing, ISBN:978-3659272905, 2012

COURSES TAUGHT

Texas A&M University -Kingsville	ITEN 1311	Technical CAD	An introduction to a variety of mechanical drafting applications and techniques, including orthographic projection, pictorials, and geometric dimensioning and tolerancing in pencil, and computer assisted drafting and design
	ITEN 3345	Advanced Graphics and Modeling	provide students educational programs that allow them to communicate effectively, design and apply technical solutions, use technology effectively, and respond to project management tasks in an environment with continually changing and sophisticated technology in an increasingly competitive global marketplace via modeling, drawing, sheet metal, 3D printing, CNC manufacturing
	ITEN 3321	Architectural CAD	Planning, design and drafting of residential and commercial buildings, site layout.
	ITEN 3313	Energy Systems	An introduction to the basic principles of energy and power transmission for industrial technologists and non-engineers
	ITEN 3331	Construction Technology	Construction Technology I is an instructional program that prepares an individual for employment or continued education in the occupations of Carpentry, Electrical Wiring, Masonry, or Plumbing. Construction Technology I is a basic course teaching fundamentals of safety, tools, math, and basic carpentry, electrical, masonry, and plumbing skills.
	IMEN 5301	Industrial Management	Manufacturing managers and industrial production managers oversee the workforce, materials, and mechanical or technological logistics of the production process. The details of the production floor will vary widely, but some of the common areas of responsibility are production scheduling, staffing, procurement and maintenance of equipment, quality control, inventory control, and the coordination of production activities with those of other departments. Their planning is done within budgetary limitations and time constraints.
	IMEN 5335	Industrial Safety and Risk Management	The course is designed to be a capstone course for the industrial safety and risk management curriculum. This integrated risk management course encompasses traditional aspects of risk management and insurance including: insurance, reinsurance, hedging and capital markets as tools to manage or mitigate risk.
	IMEN 5355	Project Management	Principles of effective planning, communication, and motivation throughout the project life cycle are the focus of this course. Project Leadership and Communication presents principles of project control from initiation through

			execution to closure in a clear and practical manner
	IMEN 5306	Graduate Thesis	dissertation or thesis is a scholarly publication reflecting the results of your research and academic pursuits
University of Northern Iowa	TECH 3142	Statistical Quality Control	Use of statistical methods in the monitoring and maintaining of the quality of products and services. One method, referred to as acceptance sampling, can be used when a decision must be made to accept or reject
	TECH 2080	Statics and Strength of Materials	study of methods for quantifying the forces between bodies. Forces are responsible for maintaining balance and causing motion of bodies, or changes in their shape.
University of Michigan - Flint	EGR 102	Introduction to Engineering	Introduction to various engineering disciplines and professions. Problem solving using engineering principles, concepts, methods, modeling, design and analysis. Topics related to engineering education and profession, such as metacognition-based learning strategies, undergraduate research, plan of study, engineering ethics, professional engineering licensure, engineering economics, probability and statistics, product design and development, manufacturing, computer aided analysis, teamwork and communication. Students work in teams to design and build a project, etc.
	EGR 280	Science of Engineering Materials	Introduction to the science of engineering materials. Emphasis on the correlation between material properties and internal structure; examination of metals, alloys, ceramics, polymers, and composite materials for engineering applications
	EGR 165	Computer Aided Design	Computer-Aided Design using parametric design and modeling. Creation of two-and three-dimensional drawings with geometric and dimensional tolerance. Constraint- and feature-based modeling based on concepts from theoretical computer graphics and related standards. Students exiting the course have increased ability to apply creativity along with constraint-based modeling to develop design and solution of problems. Lecture/laboratory with hands-on exercises using pro/ENGINEER software for creation of models and drawings

NCCER INSTRUCTOR CERTIFICATIONS

NCCER Card Number: 18631750	
20	Electrical
12	Instrumentation
00	Core Curriculum
27	Carpentry
35	Construction Craft Laborer
33	Electronic Systems Technician
68	Construction Technology
ME	Management Education
78	Site Layout
38	Rigging
50	Power Generation Maintenance Electrician
51	Power Generation I&C Maintenance Technician
52	Power Generation Maintenance Mechanic
49	Power Line Worker
74	Alternative Energy

80	Power Line Worker: Distribution
82	Power Line Worker: Substation
1380	Power Industry Fundamentals
9172	Manufactured Construction Technology
46	Mentoring and Leadership

SELECTED PROFESSIONAL ACTIVITIES AND SERVICES

- The Association of Technology, Management, and Applied Engineering (ATMAE) Organizing Committee Member - 2019
- Faculty Senate Representative, Texas A&M University-Kingsville, 2018-2020
- Developer of Study Abroad Program to Tbilisi, Georgia, Summer, 2017
- ASEE Session Moderator, M416 - Capstone (Senior) Design and Undergraduate Projects, New Orleans, LA, June 2016
- ASEE Session Moderator, M523 – Subjects in Renewable Energy in ET, New Orleans, LA, June 2016
- Webmaster, American Society of Engineering Education, Energy Conversion and Conservation Division, 2016-Present
- Freeman Computer Science, Engineering and Physics Scholarship, University of Michigan Flint, 2015
- ASEE Session Moderator, Seattle, WA, June 2015
- Summer Interim Committee, University of Michigan Flint, 2015
- Engineering Summer Camp Organizer, Instructor, University of Michigan Flint, 2015
- Solar Boat advisor, University of Michigan – Flint, 2014 - 2015
- Reviewer, American Society of Engineering Education, 2011 - Present
- Member, American Society of Engineering Education (ASEE 2012 - Present)
- Member, American Society of Mechanical Engineering (ASME 2013 - 2016)
- Director/Executive Committee, American Society of Mechanical Engineering North Section (ASME), 2013-2015
- Webmaster, American Society of Mechanical Engineering North Section (ASME), 2013-2015
- Positions held: College Relations, Pre College Education, Scholarship, and Young Engineers Program, American Society of Mechanical Engineering North Section (ASME 2014 – 2015)
- Editor, Nigerian Turkish International Colleges Graduation CD, 2004
- Designer, Nigerian Turkish International Colleges Yearbook, 2009, 2008, 2007, 2006, 2005
- Coach/Trainer, Nigerian Turkish International Colleges Soccer, 2007
- Editor, Commercial of school airing on National TV (Nigeria), 2005-2009
- Founder/Head of Environment Organization (Georgia), 2002
- Founder/Head of Computer Club (Nigerian Turkish International College), 2006
- Certificate for attending an International Seminar in Computer Science, 2005-2008 (Nigeria)

Thesis Advising

- ✓ *Oloketuyi, A. (2019). Ergonomic Analysis of Multiple Lifting Tasks in an Automotive Operation and the Risk of Developing Low Back Pain. Master's thesis, Texas A&M University – Kingsville, May 2019*
- ✓ *Kwange, C. S. (2019). Reducing Train Derailment in Indian Railways by Introducing New Methods of Inspection. Master's thesis, Texas A&M University – Kingsville, May 2019*
- ✓ *Obawomiye, S. (2018). An Assessment and Evaluation of Process Capability of Assessed Quality Features within Machined Parts. Master's thesis, Texas A&M University – Kingsville, May 2018*
- ✓ *Pannerselvam, A. (2017). Dimensional Accuracy Analysis of 3D pattern and its advantage of Implementation over wood pattern casting. Master's thesis, Texas A&M University – Kingsville, May 2017*

- ✓ *Kasibhatla, B. (2017). Analysis and Comparison of a Custom Constructed Small-Scale Wind Augmentation Device with a Wind-Guide Attachment to improve Wind Power Generation. Master's thesis, Texas A&M University – Kingsville, May 2017*
- ✓ *Yanamala, S. (2017). A Comparative Study and Design of Custom Constructed Wind Augmentation Shroud to Improve Efficiency of Wind Output. Master's thesis, Texas A&M University – Kingsville, May 2017*
- ✓ *Koppula, R. (2017). Implementing STEM in Technology Education. Master's thesis, Texas A&M University – Kingsville, May 2017*
- ✓ *Elukurthi, S. (2016). Designing the Facility Layout of an Industrial Vice Production Using ProModel Software. Master's thesis, Texas A&M University – Kingsville, August 2016*
- ✓ *Oloye, O. (2016). The Status of Occupational Safety in Nigeria. Master's thesis, Texas A&M University – Kingsville, December 2016*

Selected Reviews

American Society for Engineering Education (ASEE) article, 2016

- ✓ *Systematic Review of Engineering Technology Education Literature*
- ✓ *The Engineering Technology (ET) A.S. Degree Program Community of Practice: A Working Community Model for Colleges*

American Society for Engineering Education (ASEE) article, 2015

- ✓ *Closing the Gender Gap at the University Electrical Engineering Department*
- ✓ *Hydrogen Generation for Future Energy Applications*
- ✓ *Design and Construction of a Renewable and HVAC Technologies Testbed "Shack"*
- ✓ *"The Freedom of Answering Questions My Way": Undergraduate Research Experiences as an Intervention to Foster Underrepresented Students' Interest in STEM Careers*
- ✓ *Qualitative Study of First-Generation Latinas: Understanding their Motivation for Seeking an Engineering Degree*
- ✓ *Evaluating Team-Based Learning in STEAM-Centric Undergraduate Research Projects*
- ✓ *Novel Approach to Developing and Implementing Curriculum in a 2-Week High School Summer Engineering Experience*
- ✓ *Improving Non-Electrical Engineering Student Engagement and Learning in Introductory Electronics Course through New Technologies*
- ✓ *The use of data-mining approaches as a modeling tool to improve the system performance*

American Society for Engineering Education (ASEE), Illinois-Indiana Conference article, 2015

- ✓ *Advising for Retention and Graduation*

American Society for Engineering Education (ASEE) article, 2014

- ✓ *Unique Collaboration between Engineering and Engineering Technology Programs*
- ✓ *Low Power Energy Harvesting with a Thermoelectric Generator through an Air Conditioning Condenser*
- ✓ *Actively constructing interactive engineering learning environments*
- ✓ *Teaching Statistical Quality Control by Applying Control Charts in the Catapult Shooting Experiments*
- ✓ *Publication Debate: An Ethics Case Study for Students from ASEE Prism*

American Society for Engineering Education (ASEE) article, 2013

- ✓ *Faculty Technical Currency: 2013 Status Report on a National Survey of Engineering Technology Faculty*
- ✓ *Influence of Feedback on Modeling and Strategy in an industrially – situated Process Development Project.*
- ✓ *Accepted Forms of Scholarly Activity and the Perceived Importance in Granting Engineering Technology Faculty Tenure*
- ✓ *Expand the pipeline: K-12 curriculum development on VHDL and FPGA design*
- ✓ *Construction Management Curriculum and Professional Certifications*
- ✓ *Assessment Outcomes for the Construction Management Capstone Course*

- ✓ *Asset Management: Partnering with Utility Professionals to Identify Industry Needs and to Develop a Series of Courses Which Help Meet Those Needs*

American Society for Engineering Education (ASEE) article, 2012

- ✓ *A New Certificate Program in Renewable Energy.*
- ✓ *An Interactive K-12 Engineering Curriculum Development on Renewable Sources and Energy Storage and in Power Systems.*
- ✓ *An Overview: Applied Interdisciplinary Renewable Energy Projects*

Association of Technology, Management, and Applied Engineering (ATMAE) article, 2016

- ✓ *Leveraging AIDC Technology to Build an Authentic Manufacturing Experience in a Capstone Course*
- ✓ *Projection and Calibration of Aerial Surveillance Imagery*