

CURRICULUM VITAE

Name: Edward E. Osakue
College/School: College of Science, Engineering, and Technology
Department: Department of Industrial Technology
Date & Rank on First Appointment: Sept. 2005, Adjunct Professor
Date & Rank Secondary Appointment: January –August 2016, Visiting Professor
Date & Rank Tertiary Appointment: Sept. 2016 – August 2012, Assistant Professor
Years Granted Toward Tenure at Time of Employment: 0
Current Rank: Associate Professor
Date of Current Rank: September, 2012
Date of Tenure Rank: September, 2012
Proposed Action: Promotion to Professor
Years of Academic Service: 13
Terminal Degree: Ph.D.

Schools Attended:

1. University of New Brunswick (UNB), Canada: 1993-1999, (PhD)
2. University of Benin (UNIBEN), Nigeria: 1987 – 1992, (MEng)
3. University of Benin (UNIBEN), Nigeria: 1979- 1983, (BEng)

Degrees Earned:

1. Doctor of Philosophy (Mechanical Engineering), 1999
2. Master of Engineering (Production), 1992
3. Bachelor of Engineering (Production: *First Class Honors*), 1983

Special Training Programs:

1. PDMS Piping Design (3D): AVEVA Group Plc. Houston, Texas, Aug. 3 – 7, 2015
2. GibbsCam, Texas Online; Houston, Texas, June 25 – 29, 2007
3. PDMS Piping Design (3D): AVEVA Group Plc. Houston, Texas, Nov. 2004
4. Piping Design and Pipe Stress Analysis, Houston, Texas, ASME; Sept. 2001
5. 3D Modeling (AutoCAD R14), CAD/CAM Center, Houston, Texas, Feb. 1999

Fields of Interest:

Teaching: Engineering Design Graphics; Product Design (Mechanical/Structural/Piping); Oil and Gas Systems and Technology; Manufacturing Engineering/Technology; Construction/Concrete Technology; Facilities Engineering/Management; Industrial Equipment Maintenance and Reliability; and Mechanical Engineering/Technology

Research: Engineering Graphics and Visualization; Product Design (Mechanical, Structural, Piping); Low Impact/Friction Systems; Renewable Energy Systems; Effective Course Delivery Methods

Employments:

Texas Southern University, Houston Sept. 2012 – Present: Associate Professor
Sept. 2006 – Aug. 2012: Assistant Professor

Teach courses in design, construction, industrial technology, and manufacturing. Courses include Fundamentals of Drafting with AutoCAD and Solid Edge; Mechanical Drafting with AutoCAD; Pipe Drafting with AutoCAD; Architectural Design with AutoCAD; Machine Design with Solidworks; Piping System Design with PDMS; Strength of Materials; Manufacturing Processes; Concrete Technology; Quantity Survey; Estimating and Computer-Aided Design. Advises about 35 students per semester in academic issues like course selection per semester, degree plan implementation, add and drop courses, academic probation, and change of majors; Serves as active member in departmental, college, and University committees.

Sept. 2005 – May 2006

Adjunct Professor

Taught Fundamentals of Drafting with Solid Edge, Pipe Drafting with AutoCAD, Computer-Aided Design with AutoCAD, Concrete Technology, and Industrial Safety.

ITT Technical Institute, Houston Jan. 2006 – June 2006: Adjunct Instructor

Taught CAD Methods with AutoCAD, Engineering Graphics with AutoCAD, Descriptive with AutoCAD and Rapid Visualization

ITT Technical Institute, Houston Oct. 1999 – December 2005, Department Chair /Education supervisor

Increased program enrollment by more than 50% in three years; Improved quality of graduating students with employers making calls for possible employments (about 2 calls per week in my last term as chair); Prepared enrollment, retention, and job placement documents for Accreditation Organizations; Directly supervised 4 to 11 instructors; Regularly trained Instructors on Organizational policies and goals; Managed curriculum for Design and Drafting; Performed classroom observation, quarterly and annual performance evaluations on instructors; Implemented and maintained approved classroom schedules; Resolved conflicts amongst instructors and students; Organized Advisory Board meetings; Advised students on attendance and academics; Monitored students' performances in attendance and academics; Gathered and analyzed students' attendance and attrition data; Developed individual student's degree plan; Added and dropped students from courses and program. Taught courses that included CAD Methods with AutoCAD; Engineering Graphics with Inventor; Piping Design with PDMS; Architectural Drafting and Design with AutoCAD; Descriptive Geometry with AutoCAD; Rapid Visualization; Project Development, and Success Orientation

University of New Brunswick, Canada, Jan. 1995 – Aug. 1999, Graduate Research Assistant

Designed and built precision low velocity impact apparatus; Performed static and dynamic calibration of force transducers and proximity sensors; Studied oblique elastic impact with friction at low velocities experimentally and analytically; Developed new solution models and computer simulation algorithms for planar elastic impact; Performed project in finite element analysis using ANSYS.

University of New Brunswick, Canada, Sept 1993 – May. 1997, Undergraduate Teaching Assistant
Assisted Dr. Bohnam in Engineering Graphics and Dr. Rogers in Mechanics (Dynamics); Assisted students during Engineering Graphics Labs.; Graded students' lab-works; Kept and updated students' grades, Graded lecture assignments and Examination Scripts

University of Benin, Nigeria, Jan. 1990 – Dec. 1992, Lecturer I
Supervised senior projects; Supervised manufacturing technology laboratory staff; Planned and implemented laboratory exercises for 2nd year to 4th year engineering students; Assisted students in metrology, quality control laboratory exercises and workshop practices; Advised students in selecting courses every semester so as to meet credit requirements and improve on academic performance; Served as departmental examination officer and kept and updated students' academic records for departmental and faculty board meetings; Helped developed new course "Foundry Technology"; Served as secretary for Nigerian Institution of Production Engineers (NiProDE); Served as secretary for 3rd UNIBEN Conference on Engineering and Technological Development. Taught Machine Design; Materials Selection; Engineering Design; Manufacturing Engineering/Technology; Machine-Tool Technology; Plastic Working of Metals.

University of Benin, Nigeria, Oct. 1984 – Dec. 1990, Graduate Assistant
Taught Manufacturing Technology; Workshop Technology; Design of Machine Elements and Materials Selection; Everyday Technology, Manufacturing Technology, and Plastic Working of Metals. Served as Assistant Departmental Examination Officer. Supervised senior projects; Registered students for courses; Planned and implemented manufacturing laboratory exercises

Consultantships & Professional Services:

SmartKoncepts, Houston, August 2009 – Present, Consultant/Presenter
Conducted Facilities Engineering and Project Development Training in Angola (2012)
Performs routine training in Facilities Engineering and Management.
Performs routine training in Oil and Gas Equipment Maintenance and Reliability.
Performs routine training in Computerized Maintenance Management Systems.
Performs routine training in Project Development and Management of Oil and Gas facilities.
Performs routine training in Reliability Engineering at Houston Office.

Diversity Technologies, Houston, Texas, May 2013 – July 2013, Press CNC Programmer
May 2005 – April 2013, Design Drafting Consultant
Prepared 3D and 2D engineering graphics and 2D drawing; Document conversion to Adobe Portable Format (pdf). Programmed bending presses for AC equipment panels.

Professional Organizations:

- Society of Manufacturing Engineers: Senior Member
- American Society of Mechanical Engineers: Member
- America Society for Quality: Member
- American Society for Engineering Education: Member

Award(s):

- Canadian Commonwealth/Scholarship Award: 1993 - 1997
- Silver Jubilee Design Competition Joint Winner (1984)

- Honorable Mention, Nigeria Society of Engineers (NSE)
- Best Student, 4th Year Degree Examination, Prod. Eng. Dept., Nigeria

Award Nomination(s)

- 2017 ENI Award (€200,000.00 Prize):
- Paper considered:
Thermoeconomic Optimization of a 450 MW Natural Gas Burning Steam Power Plant
- Reference:
Lucky Anetor, **Edward E. Osakue** and Christopher Odetunde, (2016), *Thermoeconomic Optimization of a 450 MW Natural Gas Burning Steam Power Plant*, Arabian Journal for Science and Engineering, Vol. 41, p. 4643 – 4659, DOI: 10.1007/s13369-016-2227-y; Nominated for–

Research Grant:

Awarded Grant(s):

2016 Seed Grant: “Tensile Test Virtual Lab”, Development of Software to simulate tensile tests using a commercial platform. Grant amount: \$5,065.00

Submitted Grant Proposal(s):

- 2018 Governor’s Summer Merit Program, Texas Workforce Commission, PI: Dr. A. Sodipe, Co-PI: Dr. **Edward E. Osakue**. *Estimated Cost: \$82,892.00*
- 2016 Seed Grant: “Tensile Test Virtual Lab”, Development of Software to simulate tensile tests using a commercial platform. *Estimated Cost: \$5,065.00*
- 2011/2012 Seed Grant Application, “Influence of Project-Based Learning on Students’ Competence”
- Contributed to submitted Zero-Gravity proposal with Dr. R. Thomas (PI) in Fall, 2007.
- Contributed to submitted proposal “Center for Computing and Optimization Studies in Applied Sciences” (C²OSAS) with Dr. C. R. Handy (PI) in Spring, 2006.

Submitted Grant White Paper(s)

- N00014-18-S-F003: Submitted to Office of Naval Research, July 2018, TSU Mathematics and Industrial Technologies Summer Program for Middle School Students (TSU-MITSP-MS). PI: Dr. Edward E. Osakue, Co-PI: Dr. Cher. C. Crocket. *Estimated cost: \$91,800*

Scholarly Activities:

A) Books

1. Osakue, E. E., *Introductory Engineering Graphics*, Momentum Press, New York, 2018.
2. Osakue, E. E., *Fundamentals of Technical Graphics*, Volume 2, Momentum Press, New York, 2018.
3. Osakue, E. E., *Fundamentals of Technical Graphics*, Volume 1, Momentum Press, New York, 2018.

B) Journal Papers

1. **Osakue, E. E.** and Anetor, L., *Design Sizing Of Cylindrical Worm Gearsets*, FME Transactions journal, 2019, **Accepted**
2. **Osakue, E. E.** and Anetor, L. *A Comparative Study of Contact Stress from Different Standards for Some Theoretical Straight Bevel Gear Pairs*, IJRET: International Journal of Research in Engineering and Technology, <https://doi.org/10.15623/ijret.2018.0708019>, 2018.
3. Lucky Anetor and **Edward E. Osakue**, *Operational Feasibility of a Spark Ignition Engine which is subjected to VTEC Management Strategy*, Australian Journal of Mechanical Engineering, manuscript number: EATJ-D-18-00412, (Accepted for publication), 2018.
4. Lucky Anetor and **Edward E. Osakue**, *Modeling of Combustion in a Constant Mass Variable Volume Reactor*, FME Transactions, Vol. 46(4), 2018.
5. **Osakue, E. E.** and Anetor, L, *Design of Straight Bevel Gear for Pitting Resistance*, FME Transactions, 46, Vol.2, 194-204; doi:10.5937/fmet1802194O, 2018.
6. **Osakue, E. E.** and Anetor, L, *A Method for Estimating a Probabilistic Design Factor*, Int'l Journal of Research in Engineering and Technology, Vol. 06, Issue 08, pp. 119 – 129, 2017.
7. **Osakue, E. E.** and Anetor, L., *Design of Elastic Screw Fasteners under Tensile Load*, Mechanical Engineering Research; Vol. 7 No. 1; ISSN 1927-0607, E-ISSN 1927-0615, doi:10.5539/mer.v7n1pxx, URL: <https://doi.org/10.5539/mer.v7n1pxx>, 2017.
8. Lucky Anetor, **Edward E. Osakue** and Christopher Odetunde, *Combustion Dynamics at the Top Dead Center Position of a Spark Ignition Engine*, FME Transactions, 2017.
9. **Osakue, E. E.** and Anetor, L., *Spur Gear Design Streamlined*, Machine Design, Vol. 9, No. 1, pp. 1-14, 2017.
10. **Osakue, E. E.** and Anetor, L., *Helical Gear Bending Fatigue Design*, Int'l Journal of Research in Engineering and Technology, Vol. 06, Issue 04, 2017
11. Lucky Anetor, Christopher Odetunde and **Edward E. Osakue**, *Numerical Flow Visualization Studies In Internal Combustion Engine*, Int'l Journal of Research in Engineering and Technology, Vol. 06, Issue 03, 2017
12. Lucky Anetor, **Edward E. Osakue** and Christopher Odetunde, *Parametric studies of some operating variables on spark ignition engine performance*, Arabian Journal for Science and Engineering, DOI: 10.1007/s13369-017-2454-x, 2017.
13. Lucky Anetor, **Edward E. Osakue** & Christopher Odetunde, *Effect of Some Spark Ignition Engine Operating Variables on NO_x Production and Control*, Arabian Journal for Science and Engineering, DOI: 10.1007/s13369-017-2456-8, 2017.

14. **Osakue, E. E.** and Anetor, L., *Helical Gear Contact Fatigue Design By Spur Gear Equivalency*, Int'l Journal of Research in Engineering and Technology, Vol. 06, Issue 02, 2017
15. **Osakue, E. E.** and Anetor, L., *Spur Gear Design: Some New Perspectives*, Int'l Journal of Research in Engineering and Technology, Vol. 5, Is. 7, pp. 275 – 286, 2016.
16. **Osakue, E. E.** and Anetor, L., *A Lognormal Reliability Design Model*, Int'l Journal of Research in Engineering and Technology, Vol. 5, Is. 7, pp. 245 – 259, 2016.
17. Lucky Anetor, **Edward E. Osakue** & Christopher Odetunde, *Exergetic analysis of a natural gas-burning steam power plant*, Australian Journal of Mechanical Engineering, DOI: 10.1080/14484846.2016.1188456, 2016.
18. Lucky Anetor, **Edward E. Osakue** and Christopher Odetunde, *Thermoeconomic Optimization of a 450 MW Natural Gas Burning Steam Power Plant*, Arabian Journal for Science and Engineering, Vol. 41, p. 4643 – 4659, DOI: 10.1007/s13369-016-2227-y, 2016; **Nominated for 2017 ENI Award (€200,000.00 Prize)**.
19. **Osakue, E. E.**, *Reliability-Based Selection of Standard Steel Beams*, Int'l Journal of Research in Engineering and Technology, Vol. 4, Is. 7, p. 125 – 137, DOI: 10.15623/ijret.2015.0407019, 2015.
20. **Osakue E. E.**, Anetor, L. & Odetunde, C., *Fatigue Shaft Design Verification for Bending and Torsion*, International Journal of Engineering Innovation and Research (IJEIR), Vol. 4, Issue 1, p. 197-206, 2015.
21. **Osakue, E. E.**, *Probabilistic Fatigue Design of Shaft for Bending and Torsion*, Int'l Journal of Research in Engineering and Technology, Vol. 3, Is. 9, p. 370 – 386, DOI: 10.15623/ijret.2014.0309059, 2014.
22. Anetor, L., Odetunde, C. **Osakue, E. E.**, *Computational Analysis of the Extended Zeldovich Mechanism*, Int'l Journal of Arabian Science and Engineering, DOI: 10.1007/s13369-014-1398-7, 2014.
23. **Osakue, E. E.**, *Probabilistic Design with Gerber Fatigue Model*, Mechanical Engineering Research, Vol. 1, p. 99 -117, doi:10.5539/mer.v3n1p99, 2013.
24. **Osakue, E. E.**, Anetor, L. and Odetunde, C., *A Generalized Linearized Gerber Fatigue Model*, Machine Design, Vol. 4, ISSN 1821-1259, p. 1-10, 2012.
25. **Osakue, E. E.**, *A Linearized Gerber Fatigue Model*, International Journal of Modern Engineering, Vol. 12, No 1, p. 64 - 72, 2012.
26. Anetor, L., **Osakue, E.**, and Odetunde, C., *Reduced Mechanisms Approach of Modeling Premixed Propane-Air Mixture Using ANSYS Fluent*, Engineering Journal, Vol. 16, Issue 1, p. 67 – 86. , 2012.

27. Anetor, L., Odetunde, C., and **Osakue, E.**, *Experimental Studies of Flow Fields in Internal Combustion Engines*, Arabian Journal for Science and Engineering, Special Issue
28. Christopher Odetunde, Lucky Anetor and **Edward Osakue**, *On the Efficacy of ANSYS Fluent in Predicting Transonic Flow Characteristics*, NSE Technical Transactions Vol. 47, No 1, January – March, 2012.
29. **Osakue, E. E.** and Thomas G, *Students' Perception of Project Assisted Learning*, Latin American and Caribbean Journal of Engineering Education, Vol. 5, No. 1, pp. 12 -17, 2011.
30. **Osakue, E. E.**, *Plot Scale Factor Models for Standard Orthographic Views*, The Journal of Technology Studies, Vol. 33, No 2, pp.108-113, 2007.
31. **Osakue, E. E.** and Rogers, R. J., *A Study of Friction during Planar Elastic Impact-Part 1: Experiments*, ASME Journal of Pressure Vessel Technology, Vol. 123, pp. 493-500, 2001

C) Referred Conference Papers

1. **Osakue, E. E.** and Anetor, L., *A Method for Constructing Standard Involute Gear Profile*, Proceedings of International Mechanical Engineering Congress and Exposition 2018 IMECE, Paper Number IMECE2018-86572, Pittsburgh, Pennsylvania, USA, November 9-15, 2018.
2. **Osakue, E. E.** and Anetor, L. *Comparing Contact Stress Estimates of Some Straight Bevel Gears with ISO 10300 Standards*, Proceedings of International Mechanical Engineering Congress and Exposition 2018IMECE, Paper Number IMECE2018-86573, Pittsburgh, Pennsylvania, USA, November 9-15, 2018..
3. **Edward E. Osakue**, *Simplified Spur Gear Design*, Proceedings of International Mechanical Engineering Congress and Exposition 2015 IMECE, Paper Number IMECE2016-65426 Phoenix Arizona, USA, November 11-17, 2016.
4. **Edward E. Osakue**, Lucky Anetor and Christopher Odetunde, *Reliability-based Component Design*, Proceedings of International Mechanical Engineering Congress and Exposition 2015 MECE, Paper Number IMECE2015-50700, Houston, Texas, USA, November 13-19, 2015.
5. **Osakue, E. E.**, *Teaching Solid Modeling with AutoCAD*, ASEE (American Society for Engineering education) National Conference, Seattle, WA, June 14-17, 2015.
6. **Osakue, E. E.** and Smith, D. *A 6S Experience in a Manufacturing Facility*, ASEE (American Society for Engineering education) National Conference, Indianapolis, June 15-18, 2014.
7. **Osakue, E. E.** and Lewis, J. J. *Teaching SI Units in Engineering and Technology Programs*, ASEE (American Society for Engineering education) National Conference, Atlanta, June 23-26, 2013.
8. **Osakue, E. E.**, *Project Based Learning*, Conference for Industry and Education Collaboration, American Society for Engineering Education, February 2-4, San Antonio, Texas, 2011.

9. **Osakue, E. E.**, *Plot Scale Factor Models for Iso-Insert Views*, Conference for Industry and Education Collaboration, American Society for Engineering Education, San Antonio, Texas, February 2-4, 2011.
10. **Osakue, E. E.** and Thomas G, *Using Project Assignment to Improve Students' Knowledge and Skills*, Conference for Industry and Education Collaboration, American Society for Engineering Education, Palm Spring, California, February 3-5, 2010.
11. **Osakue, E. E.** and Rogers, R. J., *A Study of Friction During Planar Elastic Impact- Part 1: Experiments*, Symposium on Flow-Induced Vibration, ASME Pressure Vessel and Piping Conference, Atlanta, Georgia, USA, July 22 – 26, (FIV 01/58), 2001.
12. **Osakue, E. E.**, Salami, L. A. and Ithoro, O. J. *Design, Fabrication and Testing of a Power Sawing Machine*; Proc. of 1st Uniben Conference on Engineering and Technological Development, Benin City, Nigeria, pp. 235-242, 1987,

D) Conference Presentations:

1. **Osakue, E. E.**, *Stress-Strain Diagram from Virtual Laboratory*, Research Week (March 28 – 31), Texas Southern University, Houston, Texas, U.S.A, 2017.
2. **Edward E. Osakue**, *Spur Gear Design Simplified*, Proceedings of International Mechanical Engineering Congress and Exposition 2016 IMECE, Phoenix, Arizona, USA, November 11-17, 2016.
3. **Edward E. Osakue**, *Reliability-based Component Design*, Proceedings of International Mechanical Engineering Congress and Exposition 2015 IMECE, Houston, Texas, USA November 13-19, 2015.
4. **Osakue, E. E.** Teaching Solid Modeling with AutoCAD, ASEE (American Society for Engineering education) National Conference, Seattle, USA, June 14-17, 2015.
5. **Osakue, E. E.**, A 6S Experience in a Manufacturing Facility, ASEE (American Society for Engineering education) National Conference, Indianapolis, June 15-18, 2014.
6. **Osakue, E. E.**, *Probabilistic Design with Gerber Fatigue Model*, TSU Research Retreat, Houston, 2013.
7. **Osakue, E. E.** and Lewis, J. J., Teaching SI Units in Engineering and Technology Programs, ASEE (American Society for Engineering education) National Conference, Atlanta, June 23-26, USA, 2013.
8. **Osakue, E. E.**, “Training Competent Technology and Engineering Students in Metric Units”, CIEC, ASEE, February 2 - 4, San Antonio, Texas, USA, 2011.
9. **Osakue, E. E.**, “Project Based Learning”, CIEC, ASEE, February 2-4, San Antonio, Texas, USA, 2011.

10. **Osakue, E. E.**, “Plot Scale Factor Models for Iso-Insert Views”, CIEC, ASEE, February 2-4, San Antonio, Texas, USA, 2011.
11. **Osakue, E. E.** and Thomas G, “Using Project Assignment to Improve Students’ Knowledge and Skills, CIEC, ASEE, February 3-5, Palm Spring, California, USA, 2010.

E) Project/Technical Reports

1. **Osakue, E. E.**, *Stress Analysis Report of Texas Southern University: Wilson, WU and Goss Payload*, NASA, Nov. 2017.
2. **Osakue, E. E.**, *Stress Analysis Report of Texas Southern University: Strata Cooler Hardware*, NASA, Nov. 2017.
3. **Osakue, E. E.**, *Tensile Test Virtual Laboratory Project (2016 Seed-Grant Award)*, Texas Southern University, Houston, Texas, U.S.A, 2017.
4. **Osakue, E. E.**, *Lognormal Reliability-Based Component Design*, **Technical report**, Department of Industrial Technology, Texas Southern University, Houston, Texas, U.S.A, 2015.
5. **Osakue, E. E.**, *Study of Friction During Low-Velocity Impact*, **Ph.D. Dissertation**, University of New Brunswick, Fredericton, Canada, 1999.
6. **Osakue, E. E.**, *Design, Fabrication, and Calibration of a Low-Velocity Impact Apparatus*, University of New Brunswick, Fredericton, Canada, 1997.
7. **Osakue, E. E.**, *Design, Fabrication, and Testing of a Power Sawing Machine*, **M.Eng. Thesis**, University of Benin, Benin City, Nigeria, 1990.
8. **Osakue, E. E.**, *Detail Design of a 6-Speed Floor Type Drilling Machine*, **B.Eng. Senior Project**, University of Benin, Benin City, Nigeria, 1983.

F) Paper(s) under Review

- 1 **Osakue, E. Edward**, Anetor, L. & Christopher Odetunde, *Revised Lewis Bending Stress Capacity Model For Cylindrical Gears*, International Journal of Engineering Technology (IJET-Turkey)
- 2 Anetor, L. & **Osakue, E. Edward**, *Classical And Advanced Exergy-Based Analysis of a 750 MW Steam Power Plant*, Australian Journal of Mechanical Engineering (AJME), Manuscript No. EATJ-D-19-00330.
- 3 **Osakue, E. E.** and Anetor, L., *Contact Stress Capacity Models For Cylindrical Worm Gears*, Australian Journal of Mechanical Engineering (AJME), Manuscript No. EATJ-D-18-00701, 2018.
- 4 **Osakue, E. E.** and Anetor, L., *Contact Stress Capacity Models For Helical Bevel Gears*, Australian Journal of Mechanical Engineering (AJME), Manuscript No. EATJ-D-18-00672, 2018.
- 5 Lucky Anetor and **Edward E. Osakue**, *Modeling of Combustion in a Spark Ignition Engine*, Australian Journal of Mechanical Engineering, Manuscript No. EATJ-S-17-00221, 2018.

G) Journal/Conference Paper Reviews

1. Editorial Board Member: Technoscience Journal for Community Development in Africa
2. Advances in Engineering Software
3. American Journal of Engineering Education
4. Inderscience Online: International Journal of Materials and Product Technology
5. American Society for Engineering Education Conferences
6. American Society for Mechanical Engineers (ASME) Conferences

H) Other Achievements

- Website: Fedohills.net/New (Academic Resource)
- Laboratory Guide: AutoCAD Quick Start, 3rd ed. 2013

Other Contributions in Teaching

- MFG 232: Applied Statics, New course developed. Introduced into Degree Plan in fall semester of 2018.
- Revamped and updated several courses in the Design Technology concentration (MFG 333, MFG 231, DRFT 231, DRFT232, DRFT 331)
- Reviewed and revised Design Technology concentration curriculum in 2010.
- Revised Design Technology concentration Degree Plan in 2007/2009
- Brought PDMS (Piping Design Software) to TSU and used it for DRFT 331

Graduate Level Contributions**Taught Course(s)**

- ITEC 635: Technology and the Environment, Spring 2012

Thesis Committee Membership

- Thesis Title: “Predicting Externally Visible Characteristics (EVCs) by Genotyping Informative Polymorphisms in DNA”
Student: Ms. Justine Oguntayo, Supervisor: Dr. A. Sodipe (Biology Department), 2018
- Thesis Title: “Benzofuran-2-Carboxylic Acid Derivative, KMEG Protects Human Lymphocytes from the Harmful Effects of Microgravity and Radiation Exposure During Space Flight”
Student: Mr. Elvis Okoro, Supervisor: Dr. A. Sundaesan (Biology Department), March, 2015
- Thesis Title: “Expression Studies in Hypsibius Dujardini Exposed to Gamma Radiation”
Student: Ms. Shari Galvin, Supervisor: Dr. A. Sundaesan (Biology Department), March, 2015

Services**A) Texas Southern University:**

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|--------------------------------------|--------|----------------------|
| • University Parking Committee | Member | March 2016 - Present |
| • COSET By-Laws Committee | Member | Sept. 2013 – Present |
| • COSET Faculty Workload Committee | Member | Sept. 2014 – Present |
| • COSET Faculty Evaluation Committee | Member | Sept. 2009 – Present |
| • COSET Research Committee | Member | Sept. 2009 – Present |
| • COSET Enrollment Committee | Member | Sept. 2011 – Present |

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| • COSET Events Committee | Member | Sept. 2009 – 2013 |
| • COSET Curriculum Committee | Member | Sept. 2009 – 2013 |
| • COSET Student Complaint Committee | Member | Sept. 2009 – Aug. 2010 |
| • University Curriculum Committee | Member | Sept. 2008 – Aug. 2009 |

B) Department of Industrial Technology:

- Departmental Program Assessment Analyst: Design Concentration
- Departmental Program Director: Design Concentration
- NAIT/ATMAE Accreditation Visit Committee:
 - Collated and analyzed admission, retention, and placement data for NAIT/ATMAE Accreditation visit in 2009.
 - Department was reaccredited in April, 2011 for another six years.
- Participated in “One Stop Registration”

- **Students’ Mentoring (Selected List)**
 - Alberto Noel Zepeda-Vasquez
 - Chen Wang
 - Jeff Odia
 - Jessica Diете-Spiff
 - Jason Diете-Spiff
 - Michael Akens
 - Justin Baker
 - Salma Al Omran
 - Nora De Lara
 - Amber Thornes
 - Ashley Thompson
 - Chikezie Osunkwo
 - Frederick Whitley
 - Mr. Derrick Smith
 - a) Promoted Quality Manager (July, 2015)
 - b) Graduated Dec. 2014
 - c) Student was co-author for a paper in 2014 ASEE Conference
 - d) Student mentored in Quality Engineering
 - e) Student now certified and working as Quality Engineer
 - f) Student recently accepted for TSU MBA program
 - Helped prepared two students (Frederick Whitley and Chikezie Osunkwo) for SPED level I Examination in March 2008. Mr. Osunkwo passed the Exam.
 - Supervised senior projects for some undergraduate students (Mr. Derrick Smith, Mr. Quoc, Mr. Animashuan, Salma Al Omran, etc.).
 - Provides references for students

- **Students’ Advisement**
 - Student academic advisement is a regular activity. Officially, I am responsible for the academic advisement of students with last name starting with M through Z in the Design Technology concentration. However, I freely attend to the academic issues of all students in the department. A conservative estimate of the number of students I advise per semester

is about 35. Advicement include course selection, degree plan implementation, add and drop, etc.

- Responds to calls for students’ advicement in summer when I am officially unemployed.
- Provides individual tutorials to students

D) Public Services

- Houston Community College (Drafting and Design Engineering Technology)
Advisory Board Member Sept. 2008 - Present
- Society of Piping Engineers and Designers Educational Consortium:
Member March 2006 - 2015
- Osakue, E. E., (2011), **Presentation** “Education Advantage”,
Sugar Creek Urban Camp Ministries, Brenham, Texas. July 3 – 6
- Urban Camp Ministries (2011) Huddle Leader July 3 – 6
- Sugar Creek Baptist Church Sunday School Teacher 2006 - 2016
- Bini Club of Houston Treasurer 2016 - Present
- Bini Club of Houston Assistant Treasurer 2013 - 2015
- Bini Club of Houston Audit Committee Chair 2009 - 2013
- Katrina Evacuee Rehabilitation Volunteer 2005