

BOMA T. AFIESIMAMA
(*resumé/curriculum vita*)

Home

418 Oyster Creek Village Dr.
Missouri City, TX 77459-5739
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Business

College of Science, Engineering and Technology
Texas Southern University
3100 Cleburne St., Houston, TX 77004
Phone: (713) 313-7962 FAX: (281) 969-8342

EDUCATION

D.Eng. (1982); M.E. (1980), Industrial Engineering
Texas A&M University, College Station

B.S. (1978), Industrial & Operations Engineering
University of Michigan, Ann Arbor

Undergraduate Studies (1976), Industrial & Systems Engineering
University of Florida, Gainesville

WORK EXPERIENCE

Aug 2015 to Present **Associate Professor, Department of Engineering**

Present **TEXAS SOUTHERN UNIVERSITY, Houston**

Instructional responsibilities for undergraduate courses, research, and service in various university, college and departmental committees; program adviser in civil engineering.

Feb 2010 to Present **Adjunct Professor, Department of Mathematics**

Present **HOUSTON COMMUNITY COLLEGE SYSTEM – Northeast College**

Instructional responsibilities for developmental mathematics courses

Sep 1997 to May 2015 **Associate Professor, Department of Engineering Technologies**

May 2015 **TEXAS SOUTHERN UNIVERSITY, Houston**

Instructional responsibilities at undergraduate and graduate levels, research, and service in various university, college and departmental committees

Sep. 1994 to Aug 1997 **Graduate Program Coordinator, Department of Industrial Technologies**

to Aug 1997 **TEXAS SOUTHERN UNIVERSITY, Houston**

Primary responsibility for recruitment, developing program and curriculum enhancements, formulating and assigning class schedules to graduate faculty, directing graduate student advisement and liaising with the Graduate School on all matters pertaining to the graduate program in Industrial Technology, ranging from admissions to graduation. Also served on the 9-institution consortium for the PhD in Technology program, as TSU representative

May 1994 to Aug 1994 **Quality Engineer**

to Aug 1994 **LORAL SPACE INFORMATION SYSTEMS**

Summer 1994 consulting activity; worked in the Continuous Improvement and Training department, with primary responsibility for assisting the Space Shuttle and Space Station groups in developing strategies for implementing the Baldrige Quality framework.

Aug. 1993 to 8/94 **Assistant Dean, School of Technology**

to 8/94 **TEXAS SOUTHERN UNIVERSITY, Houston**

Primary responsibilities for enhancing faculty capabilities and productivity in research and development activities; organizing lectures on technical issues, and graduate degree program development.

Jul 1990 to 8/93 **Head, Transportation Studies Department**

to 8/93 **TEXAS SOUTHERN UNIVERSITY**

Directing and supervising the academic and administrative affairs of the transportation studies department, with responsibility for budgeting, medium and long range planning, curriculum development, faculty and staff development, evaluation and supervision.

Jan 1989 **Associate Professor**
to 7/90 *TEXAS SOUTHERN UNIVERSITY*

Graduate teaching in transportation studies and industrial technologies; undergraduate teaching in industrial technologies and engineering technologies; developed new courses in SPC and quality assurance, operations research, productivity measurement and improvement, modern manufacturing technologies, materials handling systems, graduate seminar, and internship; supervised graduate theses and internships; with numerous committee assignments.

Sep 1988 **Director of Research**
to 5/89 *Center for Transportation Training & Research, TSU*

Graduate teaching; assisting center director in research coordination and graduate programs policy; graduate student thesis advising and research/proposal activities.

Jan 1985 **Assistant Research Engineer**
to 8/88 *TEXAS TRANSPORTATION INSTITUTE, College Station*

Conducted research as co-principal investigator in highway construction and maintenance, and rehabilitation cost management systems.

Sep 1984 **Assistant Professor, Industrial Engineering**
to 8/88 *TEXAS A&M UNIVERSITY, College Station*

Graduate and undergraduate teaching and research in production control, productivity/performance evaluation, and transportation systems; supervising graduate thesis, various committee assignments.

Jan 1981 **Cost and Scheduling Engineer**
to 8/84 *FLUOR ENGINEERS, INC., SUGAR LAND, TEXAS*

Contributions included development and analysis of cost estimates, manpower requirements, and work schedules for the design, engineering and construction of multimillion dollar petrochemical plants; coordination and development of computer-based (mainframe and micro) cost control, manpower planning, and project scheduling systems; evaluation of design productivity; and training of cost & scheduling department technical personnel in the use and development of IBM-PC applications.

Jan-May 82 **Graduate Teaching Assistant**
& Jan 1979 *TEXAS A&M UNIVERSITY, College Station*
to 12/80

Contributions included assisting various industrial engineering faculty with teaching functions in several subject areas.

COURSES TAUGHT

Graduate

Statistical Process Control, Alternative Energy Systems, Project Management, Operations Research, Production Systems Control, Human Resource Development, Computer Applications, Quantitative Methods in Transportation, Transportation Scheduling, Transportation Systems Analysis, Travel Demand Forecasting & Analysis, Economics of Transportation, Production & Inventory Control, Evaluation & Control of Productivity, Network-Based Planning and Scheduling.

Undergraduate

Mathematics, Biostatistics, Introduction to Project Management, Alternative Energy Systems, Computer Applications in Technology, Engineering and Systems Analysis, Engineering Economy, Engineering Mechanics (Statics & Dynamics), Industrial Productivity Measurement & Improvement, Introduction to Operations Research, Production Control Systems, Manufacturing Control Systems, Manufacturing Processes, Manufacturing Technology, Production & Inventory Control, Production & Operations Management, Quality Control & Assurance, Statistics for Technologists, Technical Writing, Work Methods and Measurement,

RESEARCH PROJECTS AND GRANTS

- Jun 1998 to Aug 2000* "Development of Clean, Efficient, and Cost-Effective Fuel Cell Power Systems for use in Automotive Applications," Sponsored by US Department of Energy.
- Jun 1992* Texas Southern University, Faculty Development Grant, awarded for "Transportation Management Systems Conference for Colleges and Universities," Aug. 13-14, 1992; organized by the U.S. Department of Transportation, Washington D.C. \$ 1,200.
- Nov 1991* "Airways Science Improvement Grant," awarded by the Federal Aviation Administration, U.S. Department of Transportation, Washington D.C.; project administrator: funded \$540,300. Co-authors: Robert L. Prater (project director) and I. Richmond Netty.
- Mar 1991* Texas Southern University, Faculty Development Grant, awarded for "Third National Conference - Transportation Planning Methods Applications," in Dallas, Texas. April 22-26; organized by the Transportation Research Board, Washington D.C. \$ 800.
- April 1989* Texas Southern University, Faculty Development Grant, awarded for "First National Conference - Transportation Planning Methods Applications," in Sarasota, Florida. April 1989; organized by the Transportation Research Board, Washington D.C. \$ 1600.
- Sep 1988 to 5/89* "Baseline Projections of the Impact of Sociodemographic, Economic and Technological Trends on Transportation Needs," research sponsored by the U.S. Department of Transportation thro' the Southwest University Transportation Consortium; investigator: funded \$75,000. Principal Investigator - Naomi W. Lede'.
- Oct 1987 to 8/88* "DBE Capacity in the Texas Highway Construction Industry," sponsoed by Texas State Department of Highways and Public Transportation, Austin; co-principal investigator: funded \$ 151,000. Principal Investigator - Dock Burke, Texas Transportation Institute.
- Feb-Aug 87* "Evaluation of the Performance/Productivity Impact of New Production Technologies," sponsored by TAMU College of Engineering; principal investigator: funding \$ 19,800.
- Jun 1987* Centro International de Fisica, Travel Grant, awarded for "International Conference on the Use of Microcomputers in Government, Industry and Education," in Quito, Ecuador and Santo Domingo, Dominican Republic. Jul 14-24, 1987. \$ 3,500.
- May-Dec 86* "Development of a Methodology for Estimating Pavement Rehabilitation & Maintenance Costs," sponsored by Texas State Department of Highways & Public Transportation; co-principal investigator: funded \$ 56,000. Principal Investigator - Alberto Garcia-Diaz, Texas A&M University.
- Jun- Dec 85* "A Microcomputer Methodology for Long Term Manpower Planning in a Multiple Project Environment," non-funded study.

TECHNICAL PUBLICATIONS & PRESENTATIONS

Afiesimama, B.T. (1987), "Aggregate Manpower Requirements for Strategic Project Planning," Computers ind. Engng. vol. 12, No.4, pp. 249-262.

Afiesimama, B.T. and A. Garcia-Diaz (1988), "A Model for Evaluating Rehabilitation Costs of Flexible Pavements under Different Climatic Conditions," Transportation Research Record. 1200, pp. 59-65.

Garcia-Diaz, A., Afiesimama, B.T. and Garcia-Diaz, J.C. (1986), "Development and Implementation of a Computerized Procedures for Estimating Pavement Rehabilitation and Maintenance Costs," a research report for the Texas State Department of Highways and Public Transportation, Texas Transportation Insitute, Collgeg Station, Texas.

Afiesimama, B.T. and Garcia-Diaz, A. (1988), "A Model for Evaluating Rehabilitation Costs of Flexible Pavements under Different Climatic Conditions," TRB Paper No. 870409, 67th Annual Meeting of the Transportation

Research Board, Jan. 11-14, 1988, Washington, D.C.

Afiesimama, B.T. (1987), "Microcomputer Applications in Production Planning and Control," presented at the International Conference on the Use of Microcomputers in Government, Industry and Education, Centro Internacional de Fisica, Jul. 14-18, Quito, Ecuador.

Afiesimama, B.T. (1987), "Use of Microcomputers in the Planning and Control of Manufacturing Operations," presented at the International Conference on the Use of Microcomputers in Government, Industry and Education, Centro Internacional de Fisica, Jul. 20-24, Santo Domingo, Republic Dominicana.

Afiesimama, B.T. (1987), "A Microcomputer Model for Aggregate Manpower Planning," a seminar at Prairie View A&M University, College of Engineering, Prairie View, Texas.

Afiesimama, B.T. and Garcia-Diaz, A. (1987), "Development and Application of a Methodology for Evaluating Pavement Rehabilitation Needs," Paper WB17.4, TIMS/ORSA 23rd Joint Meeting, May 4-6, New Orleans, La.

Afiesimama, B.T. (1982), "Internship Experience at Fluor Engineers, Inc.," a D. Eng. technical internship report, Texas A&M University, College Station, Texas.

Afiesimama, B.T. (1988), "Productivity Improvement via Integrated Production Planning," Nigerian Institute of Industrial Engineers, 5th Annual Productivity Conference, April 1988, accepted for presentation.

Afiesimama, B.T. (1988), "A Decision Support Methodology for Project Manpower Planning," Nigerian Institute of Industrial Engineering, 5th Annual Productivity Conference, April 1988, accepted for presentation.

Afiesimama, B.T. and Phillips, E.O. (1989), "Impact of Some Recent Manufacturing Technologies on Company Productivity," University of Miami, Second International Conference on Productivity Research, Feb. 1989, accepted for presentation.

Burke, D., Afiesimama, B.T. and Tenah, K. (1987), "Texas DBE Construction Capacity Study," presented at separate meetings of the Association of General Contractors, Austin and DBE Contractors Alliance, Nacogdoches, Nov. 1987 - Jan. 1988.

GRADUATE STUDENT THESES/PROJECTS SUPERVISED

Theses

Ezinkwo, Peter E. An Analysis of Transit Ridership in Plano, Texas; Texas Southern University (Dec. 1991)

Tilong, Lawrence N. Comparative Evaluation of Selected Trip Generation Models; Texas Southern Univ. (Dec. 1991)

Udenwa, Godfrey C. Economic Impacts of Government Regulation of Railroad Transportation; TSU (Aug. 1991)

Mekwunye, Emmanuel C. The Role of the Houston Central Business District Community in Promoting Peak Period Mass Transit Usage; Texas Southern University (Dec. 1990)

Dean, William J. An Evaluation of the Cost-Effectiveness of Mobility Training as a Public Transportation Option for Persons with Mental Retardation; Texas Southern University (May 1989)

Coulibaly, Soma. Design of a Multicriteria Performance Model for JIT Systems; Texas A&M University (Dec 1988)

Garcia-Diaz, Juan C. Development & Implementation of an Enhanced Procedure for Estimating Pavement Rehabilitation and Maintenance Expenditures; Texas A&M University (Aug. 1987)

Special Projects

Nweke, Chris O. An Evaluation of Route Profiles in Metropolitan Houston; Texas Southern University, Aug. 1992

Tangwa, Anthony. Factors Affecting Student Parking Choices at Texas Southern University, A Case Study; Texas Southern University, Aug 1992

Rodsuntorn, Nitra. Houston Public Transportation and the Disadvantaged Citizen: Urgent Needs and Possible Solutions; Texas Southern University, Aug. 1991

Phillips, Ella O. Productivity Impact of Some Recent Manufacturing Technologies; Texas A&M Univ., Aug. 1988

Johnson, Kenneth A. Implementing Automated Manufacturing Systems; Texas A&M University, Aug. 1988

Kenebrew, Keith T. Performance/Productivity Measurement in a Residence Hall Administration Environment; Texas A&M University, August 1988

Estevez, Jose L. BASIC Software for Production Planning; co-chairman: Dr. R.P. Beals; Texas A&M, May 1987

Technical Internship Reports

Onuogu, Michael C. Texas State Department of Transportation, Austin, Texas; Aug. 1992
Zakeri, Jala Summit International Trading Corporation, Missouri City, Texas; Aug. 1992
Nweke, Chris O. Metropolitan Transit Authority of Harris County, Houston, Texas; Aug. 1992
Golkarfard, Gholamreza Air/Sea Travel N' Tours, Inc., Houston, Texas; Aug. 1992
Emenogu, Augustine Executive Travels, Inc., Houston, Texas; May 1992
Kulchumit, Siharat Air Muang Leoi Company, Ltd., Thailand; May 1992
Tilong, Lawrence N. Metropolitan Transit Authority of Harris County, Houston, Texas; Dec. 1991

COMMITTEES AND OTHER SERVICE

Community Service

Member, Greater Houston Partnership
Member, Lake Olympia Middle School PTA
Member, Palmer Elementary School PTA
Board of Directors, African Christian Fellowship, U.S.A.
Board of Directors, Christian Fellowship Center, Inc., Houston, Texas
Board of Trustee, New Hope Ministries, Houston, Texas

Texas Southern University

Hearing Committee for Faculty Assembly/Senate, 1994 - present
Advisory Committee for Faculty Assembly/Senate, 1994 - present
Provost's Task Force on Interdisciplinary Competencies & Skills, 1994 - present
Lecture Series (Chair, School), 1993-Present
University Research Journal Advisory Committee, 1990 - present
Faculty Committee on Institutional Self Study, 1989
Graduate Council, 1989 - present
Faculty Senate, 1991 - 1994
Advisory Board - Mickey Leland Center for World Hunger & Peace, 1990 - present
Faculty Advisor - International Students Association, 1992 - present
Faculty Advisor - Institute of Transportation Engineers TSU chapter, 1991 - 1993
Research, Development & Writing (Chair, School), 1990 - 1994
Computers & Instruction Committee (School), 1989 - 1994
Scholarships & Awards Committee (School), 1989
Planning & Evaluation Committee (School), 1991 - 1994
Rank, Tenure and Promotion Committee (School), 1991 - 1993
Engineering Technology Accreditation Committee (School), 1990 - 1994

Texas A&M University

Undergraduate Curriculum Committee, 1984 - 1985
Graduate Student Advisory Committees, 1985-1988

1985/86 Career & JETS department representative
Texas A&M University Mentors, 1984 - 1988
Faculty Advisor: Chi Alpha and TAMU African Students Association
1987/88 Vice President of Brazos Valley IIE chapter
1987 College Representative at Conference for Graduate Engineering for Minority Students (GEMS), Houston.

Reviewed papers for:

1. Engineering Economist 1985-87
2. International Journal of Production Research 1987-88

HONORS AND PROFESSIONAL AFFILIATIONS

- Registered Professional Engineer; Texas License # 61489
- Tenured faculty, Texas Southern University
- CPIM certification, American Production and Inventory Control Society (APICS)
- Senior Member, Institute of Industrial Engineers (IIE)
- 1987/88 Vice President of Brazos Valley chapter of IIE
- Member, National Association of Industrial Technologists (NAIT)
- Member, American Society of Engineering Educators (ASEE)
- Honor graduate, University of Michigan, Ann Arbor (1978)

COMPUTER SKILLS

Microsoft Office Suite, Corel Office Suite, Storm, Predict, MRP-II, and other specialized programs on IBM and compatible machines.

REFERENCES

Will provide on request.