

## RESUME FOR TAAN S. ELALI

### NAME, CONTACT INFORMATION, & PERSONAL DATA

**Name:** Taan S. ElAli  
**Title:** Professor (Since 2002)  
**Nationality:** USA  
**Comm. Skills:** Excellent Speaking & Writing Communication Skills  
**Address:** 330 Westmoreland Road, Columbia, SC 29229, USA  
**Mobile:** (803)-238-4363  
**Office:** (803)-705-4432  
**Email:** [taanelali@hotmail.com](mailto:taanelali@hotmail.com) [elaliti@benedict.edu](mailto:elaliti@benedict.edu)

### EDUCATION

#### Doctor of Philosophy in Electrical Engineering

Institution: University of Dayton, Dayton, Ohio, USA

Date: Aug. 1991 - Dec. 1993

Specialty area: Dynamic Systems, Communications and Signal Processing

Dissertation: "State-Space System Identification: A New Approach"

Developed and successfully tested a new approach to SISO & MIMO state-space system identification using simulations and hardware prototyping for an adaptive control system

#### Master of Science in Applied Mathematics

Institution: University of Dayton, Dayton, Ohio, USA

Date: Aug. 1989 - Dec. 1991

Specialty area: Applied Engineering Mathematics

Project: "Neural Nets and Adaptive Filtering"

#### Master of Science in Electrical Engineering

Institution: Wright State University, Dayton, Ohio, USA

Date: Sept. 1987 - March 1989

Specialty area: Signals and Systems

Project: "A Numerical Solution to the Riccati Equation and the Optimal Feedback Problem"

#### Bachelor of Science in Electrical Engineering

Institution: The Ohio State University, Columbus, Ohio, USA

Date: Jan. 1984 - Jun. 1987

Specialty area: Broad including graduate courses in Control Systems, Power System,

Digital Systems, Electronics, Communication Systems, Optical and Laser Systems

Project: "Power Flow and Analysis of Faults and Short Circuits"

#### Advanced Coursework Includes

- |                                  |                                  |
|----------------------------------|----------------------------------|
| > Automatic Control Systems      | > Probability & Estimation       |
| > Digital Control Systems        | > Stochastic Processes & Systems |
| > Optimal Control Systems        | > Power Systems                  |
| > Advanced Linear Algebra        | > Circuits & Electronics         |
| > Partial Differential Equations | > Digital Signal Processing      |
| > Calculus of Variations         | > Communication Systems          |
| > Systems Theory                 | > Real Analysis                  |

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### Teaching Experience

I have taught for more than sixteen years in the area of electrical engineering in particular and in the areas of applied mathematics, statistics, and programming in general.

Some of the courses I have taught include:

- |                                |  |  |
|--------------------------------|--|--|
| ✓ Graduate and Undergraduate   | } Linear System Theory<br>Systems and Signals<br>Automatic Control Systems |  |
| ✓ Digital Control Systems      |  | ✓ Discrete Mathematics                       |
| ✓ Senior Design Project I & II |  | ✓ Introduction to Engineering                |
| ✓ Numerical Analysis           |  | ✓ Introduction to Computers and applications |
| ✓ Digital Signal Processing    |  | ✓ Developmental Math                         |
| ✓ Differential Equations       |  | ✓ Circuits I & II                            |
| ✓ Linear Algebra               |  | ✓ Circuits for Non-degree Majors             |
| ✓ Probability and Statistics   |  | ✓ Electronic I & II                          |
| ✓ Electromagnetism             |  | ✓ Digital Logic                              |
| ✓ C Programming I & II         |  | ✓ Integrated Circuits                        |
| ✓ C++ Programming I & II       |  | ✓ Communication Systems                      |
| ✓ Calculus I, II, & II         |  |  |

## PUBLICATIONS, RESEARCH, AND SCHOLARLY ACTIVITIES

### A) Textbooks & Solution Manuals

- > T. ElAli, "[Discrete Systems and Digital Signal Processing with Matlab](#)",  2<sup>nd</sup> Edition, Taylor and Francis, (*Electrical Engineering Textbook Series*), December 5, 2011, ISBN: 978-1-4398-2818-2.
- > T. ElAli, M. Karim, "[Continuous Signals and Systems with Matlab](#)",  2<sup>nd</sup> Edition, (*Electrical Engineering Textbook Series*) Taylor and Francis, January 2008, ISBN: 978-1-4200-5474-3
- > T. ElAli, "[Discrete Systems & Digital Signal Processing with Matlab](#)",  1<sup>st</sup> Edition, CRC Press LLC, (*Electrical Engineering Textbook Series*) January 2004, ISBN: 0-8493-1093-8.
- > T. ElAli, M. Karim, "[Continuous Signals and Systems with Matlab](#)",  1<sup>st</sup> Edition, CRC Press LLC, (*Electrical Engineering Textbook Series*) January 2001, ISBN: 0-8493-03214.
- > T. ElAli, M. Karim "Solutions Manual for Continuous Signals and Systems with Matlab", 2<sup>nd</sup> Edition, CRC Press LLC, June 2008, ISBN: 978-1-4200-7141-2
- > T. ElAli, "Solutions Manual for Continuous Signals and Systems with Matlab", 1<sup>st</sup> Edition, CRC Press LLC, January 2001, ISBN: 0-8493-1124-1
- > T. ElAli, K. Younis, "Solutions Manual for Discrete Systems and Digital Signal Processing With Matlab", 2<sup>nd</sup> Edition, CRC Press LLC, Coming August 2011.

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- ✓ **Thousands of Libraries, Nationally and Internationally, Have Acquired the Textbooks**
- ✓ **Course Adoptions/References**
  - ✓ Rochester Institute of Technology(USA)
  - ✓ GLA University (INDIA)
  - ✓ University of Texas at San Antonio(USA)
  - ✓ The MathWorks®(USA)
  - ✓ Uttarakhand Technical University (INDIA)
  - ✓ Ministry of Science and Technology (PAKISTAN)
  - ✓ The University of Georgia(USA)
  - ✓ Lucknow Technical University (INDIA)
  - ✓ New Mexico State University(USA)
  - ✓ KLUUniversity(INDIA)
  - ✓ HuaiyinUniversity (CHINA)
  - ✓ University of Bitola-Technical Sciences(SERBIA)
  - ✓ University of Tennessee Knoxville (USA)
  - ✓ Ankara University (TURKEY)
  - ✓ Bauhaus-Universität Weimar (GERMANY)
  - ✓ The Universitat Politècnica de Catalunya. BarcelonaTech(SPAIN)
  - ✓ University of Massachusetts at Dartmouth(USA)
  - ✓ ShriRamswaroop Memorial University (INDIA)
  - ✓ Texas A&M University at Kingsville(USA)
  - ✓ National University of Singapore (INDONESIA)
  - ✓ City University of NY-Staten Island (USA)
  - ✓ Hsi Shin University (TAIWAN)
  - ✓ SRM University (INDIA)
  - ✓ Cankaya University (TURKEY)
  - ✓ Braude College of Engineering (ISRAEL)
  - ✓ "Politehnica" University of Timisoara (ROMANIA)
  - ✓ GokarajuRangaraju Institute of Engineering & Technology (GRIET) (INDIA)
  - ✓ Uludağ University (TURKEY)
  - ✓ Alquds University (PALESTINE-WEST BANK)
  - ✓ Mahamaya Technical University (MTU/MMTU) (INDIA)
  - ✓ GautamBuddh Technical University (GBTU)(INDIA)
  - ✓ Mathworks: Matlab-Based Books (USA)
  - ✓ Lakehead University(CANADA)
  - ✓ ABES Institute of Technology (INDIA)
  - ✓ Western Oregon University(USA)
  - ✓ Raj Kumar Goel Institute of Technology for Women (INDIA)
  - ✓ Western New England College(USA)
  - ✓ University of New Haven(USA)
  - ✓ Fairfield University(USA)
  - ✓ Shih Hsin University (CHINA)
  - ✓ Benedict College(USA)
  - ✓ University of Tehran (IRAN)
  - ✓ Wilberforce University (USA)
  - ✓ Dehradun Institute of Technology(INDIA)
  - ✓ Gannon University(USA)


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- ✓ Bangladesh University of Engineering and Technology (BANGLADESH)
- ✓ Narayanama Institute of Technology and Science (INDIA)


### B) Books


- > T. ElAli, "Innovative Approaches to Engineering Education",  King Fahd National Library, KSA, Nov. 2011, ISBN: 978-9960-08-088-8.


### C) Book Chapters


- > T. ElAli, S. Jones, F. Arammash, J. Biotidara, T. Oluwafemi, a chapter in  "[Innovative Algorithms and Techniques in Automation, Industrial Electronics and Communications](#)", Springer, Germany, 2008.

- > T. ElAli, S. Jones, F. Arammash, C. Eason, A. Sopeju, A. Olorode, A. Fapohunda,  a chapter in "[Innovative Algorithms and Techniques in Automation, Industrial Electronics and Communications](#)", Springer, Germany, 2007.

- > T. ElAli, A. Sopeju, A. Olorode, A. Fapohunda, a chapter  "[Advances in Systems, Computing Sciences and Software Engineering](#)", Springer, Germany, 2006.

- > T. ElAli, M. Basunia, a chapter in "[The Electrical Engineering Handbook](#)",  3rd Edition, *a more than thousand pages and one of the most famous electrical engineering references in the world*, CRC Press, Jan 2006.

- > T. ElAli, a chapter in "[The Engineering Handbook](#)",  CRC Press, 2<sup>nd</sup> Edition, *a more than thousand pages and one of the most famous engineering references in the world*, May 2004.

- > T. ElAli, a chapter in "[Circuits, Signals, and Speech and Image Processing](#)",  Taylor and Francis Group, *a more than thousand pages and one of the most famous electrical engineering references in the world* Jan. 2006.

### D) Software

- > Programs for Digital Signal Processing and Discrete Systems with Matlab  
[http://crcpress.com/e\\_products/downloads/download.asp?cat\\_no=1093](http://crcpress.com/e_products/downloads/download.asp?cat_no=1093)
- > Programs for Continuous Signals and Systems with Matlab  
[http://crcpress.com/e\\_products/downloads/download.asp?cat\\_no=0321](http://crcpress.com/e_products/downloads/download.asp?cat_no=0321)

### E) Presentations

- > T. ElAli, S. Jones, F. Arammash, J. Biotidara, T. Oluwafemi, "Analog Computer to Solve Third-Order Linear Differential Equation", The International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 10, 2007, University of Bridgeport
- > T. ElAli, S. Jones, F. Arammash, C. Eason, A. Sopeju, A. Fapohunda, O. Olorode, "An Analog Computer To Solve Any Second Order Linear Differential Equation With Arbitrary

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Coefficients", The International Conferences on Computer Information and Engineering, Dec. 10, 2006, University of Bridgeport

- > ElAli, A. Sopeju, A. Fapohunda, O. Olorode, "Analogue Computer To Solve General First Order Linear Differential Equations", was accepted, presented and published by International Joint Conferences on Computer, Information, and Engineering, December 10, 2005, University of Bridgeport
- > T. ElAli, "Linear State-Space System Identification: A New Mathematical Formulation," 104th Annual Meeting of the Ohio Academy of Science, Otterbein College, Columbus, Ohio, April 29, 1995
- > T. ElAli, Chart and Poster Presentation, NASA Meeting, Cleveland, Ohio, Spring, 1995
- > T. ElAli, "Second Order Oscillatory System Parameter Estimation, National Aerospace Electronics Conference, Dayton Convention Center, Dayton, Ohio, 1993
- > T. ElAli, "A New Approach to Linear State-Space System Identification," AIAAConference, Pasadena, California, 1993

### **F) Refereed Articles, Papers, & Journals**

- > T. ElAli, "Reshaping the Electrical Engineering Curriculum", Invited Journal, International Journal of [Education and Information Technologies](#), coming soon.
- > T. ElAli, "Course Outcomes Assessment & Continuous Improvement Process: A Complete Process", coming soon
- > T. ElAli, "Program Outcomes Assessment & Continuous Improvement Process: A Complete Process", coming soon
- > T. ElAli, "Program Educational Objectives Assessment & Continuous Improvement Process: A Complete Process", coming soon
- > T. ElAli, " Analog Computer to Solve Third-Order Linear Differential Equation ", Invited Journal, International Journal on Industrial Electronics, Technology & Automation (JIETA), submitted, February, 2012.
- > T. ElAli, S. Jones, F. Arammash, J. Biotidara, T. Oluwafemi, " Analog Computer to Solve Third-Order Linear Differential Equation ", The International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 10, 2007, University of Bridgeport
- > T. ElAli, S. Jones, F. Arammash, C. Eason, A. Sopeju, A. Fapohunda, O. Olorode, "An Analog Computer To Solve Any Second Order Linear Differential Equation With Arbitrary Coefficients", The International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 10, 2006, University of Bridgeport
- > T. ElAli, A. Sopeju, A. Fapohunda, O. Olorode, "Analogue Computer To Solve General First Order Linear Differential Equations", presented and published by The International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 10, 2005, University of Bridgeport
- > T. ElAli, "Using Error Dynamics in a New Approach to system Identification", Proceedings of ICSPAT 2000.
- > T. ElAli, "Improvements in Speed and Convergence of the Identification Process of Dynamic Systems", The Ohio Journal of Science, Volume 97, No. 2, April, 1997
- > T. ElAli, " Identification of Dynamic Systems: A Guide for the New Researcher", The Ohio Journal of Science, Volume 96, No. 2, April 1996
- > T. ElAli, E. Asikele "Linear State-Space System Identification: A New Mathematical Formulation," The Ohio Journal of Science, Volume 95, No. 2, April 1995

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- > T. ElAli, F. Scarpino, T. Kelly "A New Approach to Linear State-Space System Identification," Advances in the Astronautical Sciences, Volume 82, Part 1, Pages 331-346, 1993
- > T. ElAli, K. Jundi, P. Eloe, F. Scarpino "Introduction to Neural Networks and Adaptive Filtering: Three Illustrated Examples," National Aerospace Electronics Conference, Volume 2, Pages 904-912, 1993
- > T. ElAli, F. Scarpino, T. Kelly "Second Order Oscillatory System Parameter Estimation," National Aerospace Electronics Conference, Volume 1, Pages 108-115, 1993

### G) Collaborative Research

- > January 2002-December 2006  
School: The University Of Dayton  
Faculty: Dr. Reza Kashani, Mechanical Engineering Department  
Student: Khaled Alhulwa, Mechanical Engineering Department  
Subject: Floor Vibrations and Control

### H) Reports

- > Major Contributor & Head of Committee  
Report title: Engineering Curriculum Assessment & Continuous Improvement Plan-643pgs  
Submitted to King Faisal University Curriculum Committee, June 12, 2009.
- > Prime Investigator with students' involvement  
Report title: Estimation Using Neural Nets  
Submitted to Ohio Space Grant Consortium, December 13, 1996

### I) Professional Services

- > Chief Editor for [International Journal of Electrical and Electronics Engineering \(IJEEE\)](#)
- > Member on Review Board of the South Pacific Journal of Natural and Applied Sciences (SPJNAS)
- > Editorial Board Member on International Journal of Computer Science and Engineering (IJCSE)
- > Editorial Board Member on International Journal of Electrical and Electronics Engineering (IJEEE)
- > SciTech Publishing, Textbook Proposals reviewer, Engineering and Computing Division
- > Pearson/Prentice Hall, Textbook Proposals reviewer, Engineering Division
- > Francis and Taylor, Textbook Proposals reviewer, Engineering Division
- > World Scientific and Engineering Academy, paper reviews
- > Annual International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, Sponsored by IEEE, University of Bridgeport
- > "Digital Signal Processing with Examples in Matlab", a book proposal to CRC Press by Dr. Samuel D. Stearns
- > Book proposal for CRC Press LLC titled "Probability and Random Processes."
- > Book proposal for CRC Press, titled "Conceptual Circuits and Systems" by Nassir Sabah, Dean of the Faculty of Engineering and Architecture at the American University of Beirut
- > Committee member for International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CIS2E 06), Technically Co-Sponsored by Institute of Electrical & Electronics Engineers (IEEE), University of Bridgeport, December 4 - 14, 2006
- > Committee member for the First International Conference on Hot Arid Regions, King Faisal University, KSA, January 2010
- > Committee member for 3rd International Conference on Computer Science and its Applications, ICCSA, San Diego, California, June 28-30, 2005
- > Committee member for the 5th International Conference on Computer Science and its

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Applications, ICCSA, San Diego, California, April 4 -6, 2007

### J) Curriculum/Teaching Design

- > Have redesigned the Circuits course sequence for EE curriculum. Circuits I can be taken as early as second semester freshman year
- > Have redesigned the Systems course for EE curriculum into two separate undergraduate analogue and discrete courses. Have written one textbook for the analogue and another for the discrete systems.
- > Have designed a new Course Outcomes Assessment and Continuous Improvement Process Portfolio that can be used to verify ABET course outcomes assessment and continuous improvement and others.
- > Have designed a new Program Outcomes Assessment and Continuous Improvement Process Portfolio that can be used to verify ABET program outcomes assessment and continuous improvement and others.
- > Have designed a new Program Educational Objectives Assessment and Continuous Improvement Process Portfolio that can be used to verify ABET program educational objectives assessment and continuous improvement and others.
- > Have designed a new Faculty Assessment and Continuous Improvement Process Portfolio
- > Have modified and tested the NSF funded curriculum design initiative for two-year technical colleges at **Advanced Technological Education (ATE)** in South Carolina. The modification has led to a new method for delivering the entire four-year engineering curriculum through projects within a single course or within two or more related courses from the same department or cross departments.

#### **Modules developed are:**

- ✓ **Engineering Computing and Skills I with Calculus I Module** for the first semester freshman year. 64 pages.
- ✓ **Engineering Computing and Skills II with Calculus II Module** for the first semester freshman year. 51 pages.
- ✓ **Circuits I& Electronics I with Circuits and Electronics Lab I Module** for the first semester sophomore year. 53 pages.
- ✓ **Digital Logic with Digital Logic Lab Module** for the first semester sophomore year. 33 pages.
- ✓ **Circuits II & Differential Equations Circuits and Electronics Lab II Module** for the second semester sophomore year. 39 pages.
- ✓ **Advance Math I& Analogue Signals and Systems Module** for first semester junior year. 37 pages.
- ✓ **Advance Math II & Electromagnetism Module** for first semester junior year. 49 pages.
- ✓ **Control Systems & Integrated Circuits Module** for first semester senior year. 32 pages.
- ✓ **Digital Signal Processing Module** for first semester junior year. 28 pages.
- ✓ **Communication Systems Module** for second semester junior year. 23 pages.
- ✓ **Analogue Controls, Mechatronics, & Analogue Control and Mechatronics Lab Module** for first semester senior year. Coming soon.

### K) Research/Curriculum Grants

- > Work to develop courses for real-time signal processing and communications systems is

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currently in progress

- > As part of a team, and for program development and research, funds from Department of Defense (DOD) (\$1,000,000.00) at Wilberforce University, Dayton, Ohio, 1994-1998, and National Science Foundation (NSF) (\$2,000,000) at Benedict College, South Carolina, 2004-2008.
  
- > August 1996 - December 1996  
 Prime Investigator: Wilberforce University  
 Source of Funds: Ohio Space Grant Consortium  
 Subject: Neural Nets and Signal Processing
- > January 1995 - December 1995  
 Faculty Researcher: Wilberforce University  
 Research Institute for Technical Careers  
 Source of Funds: NASA  
 Subject: Mathematical Models for System Identification

### L) Workshops

- > May 14-15, 2012 (Invited Plenary Guest Speaker)  
 Title: Innovative Approaches to Engineering Education  
 Place: The Royal Commission Headquarters, Jubail City, KSA
- > September 28, 2009 (Invited Guest Speaker)  
 Title: Project-Based Learning  
 Place: College of Business Orientation Program, King Faisal University, Saudi Arabia
- > November 10, 2009  
 Title: Experiences in the Design and Preparation of Engineering Curriculum  
 Place: Second Conference for Quality Assurance of Saudi Universities, Prince Nayef University, Riyadh, Saudi Arabia

## WORK EXPERIENCE

### STEM Services and Solutions LLC

*April 2012-present*

- > Executive director
- > A firm providing educational and technical services for STEM areas

### King Faisal University, Saudi Arabia

*August 2009-August 2010*

- > Professor and Founding Chair/Coordinator of the Electrical Engineering Department
- > Professor and Director of the newly established Quality Assurance Office for the College of Engineering

#### **Major Duties**

- A) Responsible for all aspects of the Electrical Engineering Department
- B) College of Engineering Quality Assurance Office Director
  - Maintaining Quality Academic Performance
  - Improving Curriculum and Course Development
  - Making Sure that Out-Of-College Courses are Taught According to the College of Engineering Standards
  - Coordinating the Project-Based Curriculum Initiative



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– Responsible for Curriculum Development and Assessment Process

August 2008-August 2009

- > Professor and Founding Chair/Coordinator of Electrical Engineering Department
- > Professor and Chair/Coordinator of the new Engineering Curriculum Committee

### Major Duties

A) College of Engineering Curriculum Design

- > The main contributor for the College of Engineering Curriculum and Assessment Process following ABET Guidelines. This is a 643 pages document.

### ***This Is What They Said About The New College Of Engineering Curriculum:***

- ✚ *"We have been extremely impressed with the new thinking and approach being developed for the Engineering Department in KFU. Indeed, I must say that if this approach is well nurtured and attained, we are about to have a wonderful and a signature college in Alhasa that rivals the best in the Middle East. I have asked Dr. Saud Fattah from our team to consolidate thoughts that we can offer to your team that are of interest to the energy industry in the Kingdom."* Mr. Fahad E. Al-Helal, Program Director, King Abdullah Petroleum Studies and Research Center (KAPSARC)
- ✚ *"With the use of the project- based model, each block of courses satisfies the stated course outcomes. This is innovative!"* Dr. Adnan Nayfeh, President of AlZarqa University, Jordan
- ✚ *"I am impressed by the quality of the proposed curriculum."* Dr. Yousef Haik, Professor of Mechanical Engineering and Founder of the UAE University Nano Center.
- ✚ *"I am impressed with your vision and dedication and I have no doubt that you are laying down the foundation for an outstanding College of Engineering."* Dr. Nohad A. Toulan, Distinguished Professor and Dean Emeritus, College of Urban and Public Affairs, Portland State University
- ✚ *"I have carefully read the curriculum-proposal sent to me, and found it to be of a very high quality, professionally prepared, and matching the highest standards prevailing in US quality colleges of engineering. It shows a good balance of fundamental engineering-skills studies, with impressive in-depth engineering topics."* Dr. Daniel Eylon, Professor of Materials Engineering, Wright Patterson Air force Base, Ohio, USA
- ✚ *"I have read about the college programs and I am so excited about the way the curriculum is designed and the method of its delivery. I am sure that your graduates will give value to our firm and we look for further cooperation."* Mr. Norm Gilsdorf, President, Honeywell Process Solutions

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✚ *"This is something that the university has not so far seen since its existence. The curriculum plan is well structured and complete."* Dr. AbdulRahmanALMigle, Former KFU Vice President for Academic Affairs and President of the University Permanent Curriculum Committee

✚ *"My overall judgment of the curriculum is that it represents a modern, intensive and very comprehensive electrical engineering program. It is well organized around a good set of "emphasis" areas. The "project based" characteristic of the program is excellent and will lead to graduate engineers who understand engineering basics as well as engineering applications – a linkage which, unfortunately, has been gradually phased out of many EE programs."* Dr. Don Moon, Associate Vice President for Graduate Research and Former Professor and Chair of ECE Department, University of Dayton, USA.

- > Responsible for the Electrical Engineering Curriculum Development and Assessment Process Following ABET Guidelines
- > Responsible for the Electrical Engineering Labs Requirements
- > Introduced the Project-Based Curriculum Model for all Engineering Programs

### University of Dayton, Dayton, Ohio

*January 1990 - August 2004*

- > Adjunct Professor of Electrical Engineering
  - Teaching ECE 509, a graduate course in Linear Systems, and ECE 202 and its Lab, an Undergraduate Linear Systems course
  - Teaching a comprehensive electrical engineering course for non-Electrical Engineering students in the Electrical & Computer Engineering Department
  - Teaching Discrete Linear Systems in the Electrical & Computer Engineering Department
  - Teaching Statistics in the Mathematics Department

*January 1992 - December 1993*

- > Graduate Research Assistant in the Electrical Engineering department
- > Conducting research in the areas of Systems and Control in the Electrical & Computer Engineering Department

*January 1990 - December 1991*

- > Graduate Teaching Assistant in the Mathematics Department

### Benedict College, Columbia, SC

*August 2010-Present*

- > Tenured Professor of Electrical Engineering

*August 2008-August 2010*

- > Sabbatical Leave

*August 2006-August 2008*

- > Tenured Professor of Electrical Engineering  
International Journals of Engineering & Sciences IJENS

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*August 2003-May 2006*

- > Tenure Track Professor of Electrical Engineering

### ***Major Duties***

- Responsible for the establishment of the new electrical and computer engineering degree programs following the ABET guidelines
- Supervising the electrical engineering curriculum, labs, program development, and accreditation
- Development of a new method of teaching the electrical engineering curriculum
- Teaching in the new department of Physics and Engineering
- Research and Program Development
- Member of the Tenure and Promotion Committee for the School of Science, Technology, Engineering and Mathematics, 2003-2004, 2006-2007
- Member of the faculty Tenure and Promotion Committee for the Physics and Engineering Department, Benedict College, 2006-2007
- Member of faculty Tenure and Promotion Committee for Benedict College, Columbia, SC, 2006-2007
- Assisting the Chairperson of the Engineering and Physics Department in
  - ✓ Preparation and submission of reports to the Board Of Trustees
  - ✓ Preparation and submission of the Department Assessment Reports
  - ✓ Preparation and submission of the Department Budget
  - ✓ Preparation and production of the department's Student Guide
  - ✓ Advising, registration, and orientation of students

### **Wilberforce University, Dayton, Ohio**

*August 1994 – May 1998*

- > Tenure Track Assistant Professor of Engineering and Computer Science

*August 1998 – May 2002*

- > Tenured Associate Professor of Engineering and Computer Science

*August 2002 – May 2003*

- > Tenured Full Professor of Engineering and Computer Science

*August 2002 – May 2003*

- > Wilberforce University Promotion and Tenure Committee member

*August 1995 - August 1996*

- > Wilberforce University Computing Committee member
- > Wilberforce University Library Personnel Committee member

*August 1994 – August 1995*

- > Wilberforce University Co-Op Advising Committee member

### ***Major Duties***

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- Teaching Automatic Control Systems, Digital Control Systems, Linear Continuous Systems, Linear Discrete Systems, Circuits I and II, Linear Algebra with Matlab, Calculus, Numerical Analysis with Matlab, C Programming I and II, and C++ Programming
- Conducting research in the Systems and Controls area
- Program Development: Introduced the following courses in the Electrical Engineering area: Continuous Linear Systems, Discrete Linear Systems, Numerical Analysis, Automatic Control Systems, Digital Control Systems, Field Theory, and Stochastic Systems
- ABET Accreditation: Major effort in establishing the Electrical Engineering Program
- Wilberforce University Faculty Association member

### Sinclair Community College, Dayton, Ohio

*June 1999 - August 1999*

- > Adjunct Instructor
- > Teaching Calculus for engineering and computer science majors

*January 1994 - September 1994*

- > Adjunct Instructor
- > Teaching Technical Mathematics and Differential Equations for Engineering and Engineering Technology majors

### HONORS/AWARDS/NOMINATIONS

- > Fulbright Scholarship for 2008-2009
- > Received Who's Who in the World from 2005 to 2013
- > Received Who's Who in American Education from 2005 to 2013
- > Received Who's Who in Science and Engineering from 2004 to 2013
- > Received Who's Who in America from 2004 to 2013
- > Received Who's Who Among America's Teachers award for 1998 & 2000
- > Wilberforce University's Teaching and Service Merit Award
- > Outstanding Teacher, Wilberforce University, The Ladies of Alpha Kappa Alpha Sorority, Inc., Zeta Chapter, April 30, 1997
- > Received Strathmore's Who's Who for 2007-2008
- > Permanent listing in Who is Who in Engineering Academia
- > Graduate Fellowship: University of Dayton, Ohio 1993
- > Graduate Teaching Assistantship: University of Dayton, Ohio 1990
- > Research Assistantship: University of Dayton, Ohio 1992
- > Honor list: Ohio State University, College of Engineering, Columbus, Ohio 1984
- > Nominated at King Faisal University to receive the Arab Creativity Award offered by Arab Thought Foundation for 2009 and 2010 consecutively

### MEMBERSHIPS

- > IEEE Senior member:  
Rare honor attained by fewer than eight percent of IEEE's members. It is conferred only on those who have outstanding research achievements and who have performed great service to the scientific community

### RESPONSIVENESS TO DIVERSITY

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Taught at many colleges and universities with diverse student populations that comprises many different ethnic groups. Being a full professor and tenured since 2002 is an indication of excellent academic qualities in diverse student communities.

### OTHER INFORMATION

Community Service: IAC (pre-k to high school), Columbia, South Carolina

Aug 2003 – Aug 2007

- > Member, Education and Accreditation Committee
- > Teaching/Tutoring middle and high school mathematics

Aug 2003 – Aug 2004

- > Member, Parent-Teacher Organization & Director of Saturday Tutoring Program

Aug 2004 – Sept 2005

- > Committee Chair, Newsletter
- > Textbooks Committee

Summary of Skills

- > Extensive experience in program development and design, ABET accreditation, and integrated curriculum
- > Languages & Tools: C++, C, Visual Basic, HTML, MATLAB, PSpice, Office, etc.

### REFERENCES

**1.** Mohammad A. Karim, Ph.D  
Professor & Vice-President  
University Research Office  
Old Dominion University  
Norfolk, VA 23529  
(757) 683-3460  
[mkarim@odu.edu](mailto:mkarim@odu.edu)

Associate Professor  
Computer Engineering  
Jackson State University  
Jackson, MS 39217  
(601) 979-3920  
[khalid.h.abed@jsums.edu](mailto:khalid.h.abed@jsums.edu)

(803) 705 4311  
[arammashf@benedict.edu](mailto:arammashf@benedict.edu)

**2.** Dr Ming Yin, Ph.D  
Professor of Physics  
Physics and Engineering  
Benedict College  
Columbia, SC 29204  
(803) 705-4770  
[yinm@benedict.edu](mailto:yinm@benedict.edu)

**4.** Fouzi Arammash, Ph.D  
Chairperson  
Physics and Engineering  
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