

# **EMERITUS PROFESSOR LAWRENCE OLAKUNLE KEHINDE, Ph.D.**

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Resume link: <https://lawrencekehinde.netlify.app>

**Status until recently : Adjunct Professor, Texas Southern University, Houston, Texas.  
Retired Professor of Electronic and Electrical Engineering.  
Retired Professor of Mechatronics Engineering**

## **CURRICULUM VITAE**

### **A. PERSONAL DATA**

1. **Name:** KEHINDE, Lawrence Olakunle
2. **Current Contact Address:** 5318 Lantana River Lane, Fulshear, Tx77441 USA
  - (a). **E-mail addresses:** [Lokehinde@yahoo.com](mailto:Lokehinde@yahoo.com); [lawrence.kehinde@tsu.edu](mailto:lawrence.kehinde@tsu.edu);
  - (b) **Mobile Phone numbers:** +1 8326142266
3. **Current Nationality:** American
4. **State of Current abode:** Texas
5. **Permanent Home Addresses:**  
5318 Lantana River Lane, Fulshear, Texas 77441, USA
6. **Marital Status:** Married
7. **Next of Kin:** Mrs. Tokunbo. A. Kehinde (Wife)
8. **Details of Contact Address of Next-of-Kin:**
  - (a) 5318 Lantana River Lane, Fulshear Tx 77441
  - (b) **E-mail Address** [takehinde@yahoo.com](mailto:takehinde@yahoo.com)
  - (c) **Mobile Phone Number(s)** +18328489100
9. **Status Until end of December 2025:**  
Adjunct Professor Department of Engineering Texas Southern University, Houston USA
10. **Earlier positions in other universities:**  
Professor of Electronic and Electrical Engineering. (Now retired)  
Professor of Mechatronics Engineering. (Now retired)  
Emeritus Professor of Electronic and Electrical Engineering (Obafemi Awolowo University Ile-Ife, Nigeria)

### **B. EDUCATIONAL BACKGROUND:**

#### **1. Higher Educational Institutions Attended with dates:**

University of California, Berkeley, U.S.A.	1977 - 1978
University of Sussex, Brighton, England	1973 - 1975
Philips International Institute for Technological Studies, Netherlands	1971 - 1972
University of Ife, Ile-Ife, Nigeria	1968 - 1971

## 2. Academic/Professional Qualifications and Distinctions Obtained with Dates:

BSc. Electronics, 1 <sup>st</sup> class Hons. (Obafemi Awolowo University, Ile-Ife, Nigeria)	1971.
Postgraduate. Diploma in Communications Engineering; (Philips International Institute of Technological Studies, Netherlands)	1972
PhD Control Engineering (University of Sussex, Brighton, U.K)	1975
Postdoctoral Testimonial in Nuclear Instrumentation. (University of California, Berkeley. USA)	1978

## 3. Other Distinctions and Awards with dates:

### (a) Scholarship

University of Ife Scholarship Award	1973 - 1975
Western Nigeria Scholarship Award	1968 - 1971

### (b) Fellowship

International Atomic Energy Agency (I.A.E.A).Award	1977 - 1978
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### (c) Past Research Grants

- i. P.I. Project “**Realizing the potential of iLabs in Sub-Sahara Africa**, Obafemi Awolowo University, Ile-Ife, Nigeria, in cooperation with Massachusetts Institute of Technology (MIT), USA. 2005 (Grant given by Carnegie Corporation of New York).  
Phase I \$75,000 (2005-2006)  
Phase II \$100,000 (2007-2008)
- ii. P.I. Project “**Academic-Industry Application of Remote Online Laboratory Technologies**” (Grant given by Partnership for Higher Education USA. 2007-2008)
- iii. URC grants , Obafemi Awolowo University, Ile-Ife Nigeria 2000

### (d) Grant Application 2021

#### TETFUND Research Grant Application

iLabs, Ng: Development of a Federated Online Laboratory System for Second-Year Engineering Education in Nigeria. Category 3: Cross Cutting. Thematic Area 26: Science, Technology and Innovation System Management.

### (e) International Awards

IEEE outstanding paper award for Volume 58, calendar year 2015.

### (f). International Atomic Energy Agency Fellowship (1977-1979)

## C. Work Experience With Dates

### 1. Previous Work Outside the University System with Dates while on leave of absence from Obafemi Awolowo University, Ile-Ife:

- (a). Founding Rector, (Lagos City Polytechnic, Nigeria. This is the first private Polytechnic in Nigeria)-On leave from OAU, Ile-Ife. 01/96 - 11/97

- (b) World Meteorological Organization (W.M.O) Consultant on Meteorological Instrumentation at the Department of Meteorological Services, Oshodi, Nigeria. (On leave from O.A.U. Ile-Ife.) 03/93-09/93
- (c) Past Control and Instrumentation subgroup leader of the Raw Materials, Research and Development Council, Lagos NIGERIA.

## 2. Most Recent University Work Experience

- (a) Adjunct Professor, Texas Southern University USA; since 2023 till December 2025
- (b) Contract Professor, Department of Mechatronics Engineering; Federal University of Agriculture, Abeokuta (May 10, 2019 till May 18, 2023).

## 3. Courses Taught

Most Electronic and Electrical Engineering Courses

**including**

Process Automation  
 Microcomputers and Embedded Systems  
 Systems Modelling and Simulation  
 Machine Vision  
 Full Automation  
 Partial Automation  
 Basics of Artificial Intelligence  
 Introductory C++  
 Circuit Analysis  
 Electronics 1

## 4. Previous Work Experience in Other Universities:

- (a). Obafemi Awolowo University, Nigeria From 1971-2018
- (b). Visiting staff at the Nuclear Instrumentation Laboratory at University of California, Berkeley. USA. 10/77 - 1/79
- (c). World Meteorological Organization (W.M.O) Consultant Professor at Federal University of Technology, Akure, Nigeria on Meteorological Instrumentation. (On Sabbatical leave from Obafemi Awolowo University. Ile-Ife, Nigeria) 12/94-01/96
- (d) Visiting Professor; Texas Southern University; Houston, Texas 01/2008-01/2011
- (e) Part time Adjunct Professor Texas Southern University; Houston, Texas (Summer 2012-2016)
- (f) Part time Adjunct Professor Texas Southern University; Houston, (Sept 2023-Dec 2025)

## 5. Past Academic Work Experience in Obafemi Awolowo University

Graduate Assistant	10/71-10/75
Lecturer II	10/75 - 9/77
Lecturer I	10/77 - 9/80
Senior Lecturer	10/80 - 9/85
Associate Professor	10/85 - 9/88

Professor 10/88 Till Date  
Emeritus Professor Award November 2022 (Obafemi Awolowo University, Ile-Ife, NIGERIA)

## **D. Membership of Professional Bodies**

Chartered Engineer (C.Eng.) UK  
Member, American Society for Engineering Education (ASEE)  
Senior Member, IEEE  
Senior Member, Science Research Association (SCIREA)  
Member, Nigerian Meteorological Society (M.N.M.S)  
Member American Association for Science and Technology (AASCIT)  
Member Science Research Association  
Fellow, Computer Association of Nigeria (F.C O.A.N.)  
Member, Nigerian Society of Engineers (M.N.S.E.)  
Fellow, Computer Professionals of Nigeria (F.C.P.N.)  
COREN Registered Engineer. (RN 1411) Dec 17, 1979

## **E. Publications:**

### **1. Thesis/Dissertation**

PhD Thesis "Stabilization of Magnetically Suspended Trains"

### **2. Books and Monographs**

#### **a. Monograph**

**L.O. Kehinde;** "Aid to Servicing the HF - SSB AEL - 3030 Transceiver", A manual of the Division of Meteorological Services, Lagos, Nigeria, 1993.

#### **b. Contribution to Books**

**i. Kehinde, L. O. and Afolabi, B. S, 2000.** "Impact of international cooperation on curricular, teaching methods and evolution of internationally accepted engineers: The African perspective". In J. Michel (Ed.), "The Many Facets of International Education of Engineers", Balkema, Rotterdam, The Netherlands. ISBN 90 5809 167 8.

#### **ii. L.O. Kehinde, K.P. Ayodele, O.B. Akinwale, O. Osasona**

Using Remote Labs in Education: The Obafemi Awolowo University Experience

**Book Project: Using Remote Labs in Education.**

**Chapter 3, pages 81-111**

**Editors:**

Javier Garcia Zubia and Gustavo R. Alves

**Publishers:** Deusto, (2011) ISBN: 978-84-9830-398-8

#### **iii. Lawrence Olakunle Kehinde, Xuemin Chen, Kayode P. Ayodele, Olawale B. Akinwale**

"Developing Remote Labs for Challenged Educational Environments."

**Book Project: in *Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines* "Chapter 22, pp 432-452, 2011.**

**editors:**

Abul K. M. Azad, Northern Illinois University, USA

Michael E. Auer, Carinthia University of Applied Sciences, Austria

V. Judson Harward, MIT, USA.

**Publishers:** IGI Global (2012) ISBN: 978-1-61350-188-7

### 3. Published Journal Articles

- iv. **L.A. Buraimoh-Igbo and L.O. Kehinde;** "Asymptotic stability of the Equilibrium Position of Dynamic Systems", Proc. NICONTAM, No.1 pp. 168- 177 Dec. 1976.
- v. **L.O. Kehinde;** "Stabilization of an Optical Magnetic Suspension System", Nigerian Journal of Engineering and Technology, Vol. No.1 & 3 pp. 44-57 May/June 1978.
- vi. **L.O. Kehinde;** "Linearization and Responses of a One-Ton Levitated System", Bull Nig. Inst. Phys. Vol. No.2, pp. 22-23 March 1990.
- vii. **L.O. Kehinde;** "The Control Aspects of a Magnetically Suspended System and the Possibility of its Use in a Conveyor System", Nig. Journal of Science, Vol. 14, Nos. 1 & 2 pp. 79 - 102, 1980.
- viii. **L.O. Kehinde;** "A Programmable op amp for undergraduate laboratory use", Int. Journal of Electrical Engineering Educ. vol. 20 No.1 pp. 71 - 80, (U.K) January, 1983.
- ix. **L.O. Kehinde and J.A. Oyedele;** "Planning for a Viable Nuclear Industry in Nigeria", 1981. The Nigerian Engineer, Vol. 16, No.1 pp. 86-94.
- x. **L.O. Kehinde, A.F. Oluwole, O. Oshin and R. Fleming;** "Assay of Nigerian Uranium Ores by Passive Gamma Ray Spectrometry", Int. Journal of Applied Radiation and Isotopes." 01/1983; 34(6); 936-938.
- xi. **H.A. Hannan, A.F. Oluwole, A.B. Borisade, L.O. Kehinde, Oshin, J.B. Aladekomo and R.E. Jarvis;** "Determination of traces Elements in Nigerian Coals by Neutron Activation Analysis", Radio Chemical and Radio Analytical Letters, Vol. 55 No.9 pp. 155-162, January 1983.
- xii. **A.D. Akinde and L.O. Kehinde;** "Prospects of Microprocessor Applications and Utilization in a Developing Country: Social and Engineering Challenge", Journal of C S A Vol. 3 pp. 53 - 68, 1984.
- xiii. **L.O. Kehinde;** "Analysis of Limit Cycle Oscillations in a Magnetic Suspension System Using the Describing Function Method", International Journal of Engineering Science, (U.K.) 01/1984; 22(4):419-437.
- xiv. **L.A. Buraimoh-Igbo and L.O. Kehinde;** "An Algorithm for Evaluating Optimal Stabilizing Feedback gain using Letov's Hypothesis", Nig. Journal of Science Vol. 18, 1984 Nos.1 & 2 pp. 79-83.
- xv. **L.O. Kehinde, L.A. Buraimoh-Igbo, R. Makanjuola;** "An Electronic Rotameter for Quantitative Evaluation of Rotational Behaviour in Rats After Unilateral Lesions of the Nigrostriatal Dopamine System", Journal of Medical and Biological Engineering and Computer (U.K) Vol. 22 pp. 361 - 366, 1984.
- xvi. **L.O. Kehinde;** "Retriggerable Frequency Ratio Meter", Electronic Engineering July 1985 pp. 38 (U.K).

- xvii. **A.B. Borishade, A.H.M.A. Hannan, L.O. Kehinde, A.F. Oluwole and O. Oshin;** "Elemental Composition of Nigerian Coals", Energy Vol. 10, No.1 pp. 35 - 39, 1985.
- xviii. **A.F. Oluwole, L.O. Kehinde, A.B. Borishade and H.A. Hannan;** "Determination of Oxygen, Nitrogen and Silicon in Nigerian Fossil fuels by fast Neutron Activation Analysis", Nig. Journal of Science, Vol. 19, Nos. 1 & 2, 1985 pp. 104-107.
- xix. **O.O. Olaniyan and L.O. Kehinde;** "Circuit for Skewed Data Transmission" Electronic Engineering U.K. 1986, pp. 27.
- xx. **L.O. Kehinde, K.A. Makinwa and A.D. Akinde;** "A Microprocessor-based Vector graphic System for Microcomputers", Int. Journal Electrical Engineering Educ. Vol. 24, pp. 131-146, 1987, U.K
- xxi. **A. F. Oluwole, A. H. A. Hannan, L. O. Kehinde, A. B. Borishade, O. S. Adegoke.** "Trace Elements in Nigerian Oil Sands and Extracted Bitumens" Journal of Radioanalytical and Nuclear Chemistry 02/1987; 110(1): 275-282.
- xxii. **L.O. Kehinde;** "A 4-quadrant analogue divider", Ayodele 1987, Series A Vol. 6, No.1 pp. 51 - 56.
- xxiii. **A. D. Akinde and L.O. Kehinde;** "Interfacing the apple II to Data General Eclipse C - 150", Nig. Journal of Science, Vol.21, Nos. 1, 2 1987 pp. 121, 126 A.D.
- xxiv. **L.O. Kehinde;** "A Versatile Data Transmission Training Module", I.E.E.E. Trans on Educ. 1988 Vol. 31, No.2 pp. 132-137 (U.S.A.).
- xxv. **L.O. Kehinde;** "Quad bilateral switch control for pulse delay", Electronic Engineering, U.K. pp. 26, 1988.
- xxvi. **L.O. Kehinde and A. Olunu;** "A Computer based heart-beat monitor for hospital use", Journal of Computer Science and its Applications" 1988 Vol. 5 No. 1, 1988 pp. 69-80.
- xxvii. **L.O. Kehinde;** "The dozen impedance op amp for experimentation" International Journal of Electrical Engineering Educ., U.K. 1988 Vol. 26, No.4, 1989 pp. 224-232.
- xxviii. **A.D. Akinde, L.O. Kehinde and N. Inyang;** "A Multi-purpose Digital Billing System", Journal of Computer Science and its Applications, 1989.
- xxix. **L.O. Kehinde and O. Osasona;** "A Direct Reading Water Level Indicator", Nig. Journal of Science 1990 Vol. 24, Nos. 1 & 2, pp. 90-94.
- xxx. **L.O. Kehinde, L.O. Buraimoh-Igbo, T.O. Oyebisi, M. Olaogun;** "Computer-Based Data Acquisition System for Ground foot Forces in Pathological Gaits", Journal of Computer Science and its Applications. Vol. 6, No.1, 1994, pp. 1-15.
- xxxi. **L.O. Kehinde, K.A. Makinwa;** "An improved procedure for Synchronous counter design", Ife Journal of Technology, Vol.5, No.1, 1995.

- xxxii. **E.E. Ekuwem, L.O.Kehinde, G.O. Ajayi;** "An improved sensitive radiosonde for the tropical atmosphere", Journal of Nigeria Meteorological Society.1997
- xxxiii. **M.A. Hannan, A.F. Oluwale, L.O. Kehinde, and A.B. Borishade;** "Determination of Oxygen, Nitrogen and Silicon in Nigerian Fossil fuels by 14 MeV Neutron Activation Analysis", Journal of Radioanalytical and Nuclear Chemistry 03/2003; 256(1):61-65.
- xxxiv. **K.P. Ayodele, K.A.A. Makinwa, L.O. Kehinde and I.A. Inyang,** "Development of a microprocessor Interface for a smart wind sensor". Science Research annals, Vol. 1, No 1, Nov 2004.pp 64-67.
- xxxv. **I.A. Inyang, L.O. Kehinde and K.P. Ayodele,** "Development of a Virtual Instrumentation System for Monitoring Meteorological Variables". Science Research annals, Vol. 1, No 1, Nov 2004.pp 68-73.
- xxxvi. **O.O. Abiona, C.E. Onime, A. I. Oluwaranti, L.O. Kehinde, S. M. Radicella** (2006). Development of a non-intrusive network traffic monitoring and analysis system. African Journal of Science and Technology, vol. 7, No. 2, December 2006, pp. 54-69.
- xxxvii. **Jonah O.P, Ayodele K.P., Kehinde L.O. Osasona O; and Ajayi E.O.B (2009)** "Comparisons between a web-based Laboratory (WBL) and conventional Laboratory Models" The Journal of Computer Science and Its Application. Vol. 15, No.1, pp 124-135, June 2008.
- xxxviii.**O.O. Abiona, T. Anjali, C. E. Onime, and L. O. Kehinde,** "Analysis of a cyclic multicast proxy server architecture", International Journal of Communications, Network and System Sciences (IJCNS), vol. 1, no 4, pp.301-306, November 2008.
- xxxix. **O.A. Moninuola, K.P. Ayodele, L.O. Kehinde and T.K. Yesufu** (2009): A Platform for Inertial Motion Capture and Modelling of Human Movement. Accepted for publication in the Special Issue of the Ife Journal of Technology, Vol. 18, and No. 2.
- xl. **O. Aziza, K. P. Ayodele, and L. O. Kehinde:** An Improved Query-By-Humming Music Retrieval System. The Journal of Computer Science and its Applications, Lagos. Vol. 16, No 2, Dec 2009, pp. 51- 60.
- xli. **Ayodele K.P., Kehinde L.O., Yesufu T.K. and Inyang I.A:** A USB Interface for a Thermal Sigma-Delta Wind Sensor. The Journal of Computer Science and its Applications. Surulere, Lagos. Vol. 16, No 2, Dec 2009, pp. 21-30.
- xlii. **Olatunde Abiona, Temitope Aladesanmi, Clement Onime, Adeniran Oluwaranti, Ayodeji Oluwatope, Olakanmi Adewara, Tricha Anjali, Lawrence, Kehinde,** "A Scalable Architecture for Network Traffic Monitoring and Analysis Using Free Open-Source Software" International Journal of Communications, Network and System Sciences (IJCNS) Vol. 2 No. 6, Sept 2009 (<http://www.SciRP.org/journal/ijcns>)

- xl.iii. **Safiriyu Eludiora, Olatunde Abiona, Ganiyu Aderounmu, Ayodeji Oluwatope, Clement, Onime, Lawrence Kehinde**, “A Load Balancing Policy for Distributed Web Service” *International Journal of Communications, Network and System Sciences (IJCNS)*, Vol. 3, No. 8; pp. 645-654, Aug. 2010.
- xliv. **Safiriyu Eludiora, Olatunde Abiona, Ayodeji Oluwatope, Adeniran Oluwaranti, Clement Onime, Lawrence Kehinde**, “A User Identity Management Protocol for Cloud Computing Paradigm”, *International Journal of Communications, Network and System Sciences (IJCNS)*, Vol.4, no. 3, Pp. 152-163, 2011.
- xl. **O.B. Akinwale, K.P. Ayodele, L.O. Kehinde, and O. Osasona** (2012): Implementing Remote Laboratories with the iLab Architecture: Three Case Studies from Obafemi Awolowo University, Nigeria. *ASEE Computers in Education Journal*, vol. 3, No 1 pp. 86-98; March 2012.
- xlvi **Ayodele, K.P, Kehinde, L. O., and Komolafe, O. A** (2012). “Hybrid Online Labs: Making Remote Laboratories Usable under Unfavourable Conditions”. *International Journal of Online Engineering (iJOE)*, Vol. 8, No 4 (2012).
- xlvii. **Oluwaranti, A.I., Afolabi, B.S., Abiona, O.O., and Olugboji, T.M. Onime, C.E, Kehinde L.O.;** “Design of a University-based Information Service Centre with SMS Notification (Obafemi Awolowo University as a case study)”. *IEEE Explore* 2013
- xl.iii. **L. O. Kehinde, P. K Ayodele, O Akinwale, O. Osasona** “Issues in Using Remote Laboratory Experimentation for Transnational Education” Poster Paper, *Going Global Conference*, Dubai, 4-6 March, 2013
- xl.lix **F. O. I. Asubiojo, L. O. Kehinde** “Virtual Chemistry Practicals at Obafemi Awolowo University, Nigeria” Poster Paper, *Launching of the Open Science Laboratory at the Royal Society*, London, July 24, 2013.
- 1 **S. O. Oyediran, K. P. Ayodele, O. B. Akinwale, L. O. Kehinde** (2013) “Development of an Operational Amplifier iLab Using an Android-based Mobile Platform” *Computers in Education Journal*; Vol. 4, No. 4 October-December 2013. USA.
- li. **O. Abiona, A. Oluwaranti, A. Oluwatope, S. Bello, C. Onime, M. Sanni and L. Kehinde**, "Wireless Network Security: The Mobile Agent Approach," *Int'l J. of Communications, Network and System Sciences*, Vol. 6 No. 10, 2013, pp. 443-450.
- lii. **O. Abiona, A. Oluwaranti, A. Oluwatope, S. Bello, C. Onime, M. Sanni, L.O. Kehinde,** (2014) "Proxy Server Experiment and Network Security with Changing Nature of the Web", *Int. Journal of Communications, Network and System Science*, Vol. 7, No 12, pp 519-528, December 2014/ USA.
- lii.iii. **Oluyemisi Satope, Isaiah Boboye, Olawale Akinwale, Lawrence O. Kehinde** (2015) “Development of a Suite of Virtual Experiments for Physics and Chemistry Undergraduate Laboratories”. *Computers in Education*, Vol. 6, No. 2, April-June 2015, pp. 50-64 (USA).

- liv. **Olubiyi O. Akintade, Lawrence O. Kehinde** (2015) “Comparison of Range-of-Motion Measurement Data in Human Knee Joint Using Inertial Sensors” *International Journal of Electrical and Electronic Science*, Vol. 2, No 3: Sep. 12, 2015, Pages: 49-56.
- lv. **M. O. Onibonoje, U. N. Ume, L. O. Kehinde** (2015) “Development of an Arduino-Based Trainer for Building a Wireless Sensor Network in an Undergraduate Teaching Laboratory” *International Journal of Electrical and Electronic Science*, Vol. 2, No.3, Pages: 64-73.
- lvi. **Moses O. Onibonoje, Lawrence O. Kehinde, O. K. Owolarafe** (2015) “A Wireless Sensor Network for Controlling the Effect of the Moisture Content in Stored Maize Grains” *International Journal of Engineering Research & Technology (IJERT)*; Volume. 4 - Issue. 10, pp. 141-147 October – 2015.
- lvii. **Jimoh N. Olasunkanmi, Olubiyi O. Akintade, , Lawrence O. Kehinde** (2015) “Development of a GSM Based DC Powered Bird Egg Incubator” *International Journal of Engineering Research & Technology (IJERT)*; Vol 4, Issue 11, Nov 2015
- lviii. **Kayode P. Ayodele, Member, IEEE, Isaac A. Inyang, and Lawrence O. Kehinde, Member, IEEE** “An iLab for Teaching Advanced Logic Concepts with Hardware Descriptive Languages”; *IEEE Transactions on Education*, Vol. 58, No. 4, pp. 262-268. Nov 2015  
(Received IEEE outstanding paper award for Volume 58, calendar year 2015).
- lvix. **Osahor Uche, L. O. Kehinde**, “Development of a Gesture Detection System for the Control of a Robotic Arm”, *American Journal of Science and Technology*, Vol. 3, No. 1, pp. 17-24, Feb 2016.
- lx. **Olawale B. Akinwale, Lawrence O. Kehinde** (2017) “An Update to the iLab Shared Architecture for Mobile Device Support” *International Journal of Online Engineering (IJOE)*, Vol 13, No.2 Austria; January 2017
- lxi. **Olawale B. Akinwale, Lawrence O. Kehinde** (2017) “Data Compression for Remote Labs”, *International Journal of Interactive Mobile Technologies (iJIM)*, Vol II, No 4, 2017, pp 95-113
- lxii. **Olubiyi Akintade, Lawrence O. Kehinde**, “Comparison of Data Fusion Techniques for Human Knee Joint Range-of-Motion Measurement Using Inertial Sensors” *International Journal of Electronics and Electrical Engineering, IJEEE, USA*, Vol 5, No. 2, pp 127-134; April 2017.
- lxiii. **Olaide O. Kazeem, Olubiyi O. Akintade\*, Lawrence O. Kehinde** (2017), “Comparative Study of Communication Interfaces for Sensors and Actuators in the Cloud of Internet of Things” *International Journal of Internet of Things* Vol 6, No. 1, pp 9-13, 2017
- lxiv **Obasegun Tekena Ayodele; Kazeem Olaide Olawale., Olubiyi O Akintade, Lawrence O. Kehinde**, “Development of an Interface and Connectivity Platform for a Basic IoT

Training Module". COMPUTERS IN EDUCATION JOURNAL, Volume 8, Issue 3, September 2017

- lxv Kolapo Alli, *Member, IAENG*, A.M Jubril, and L.O Kehinde "Development of a Semi-definite Programming Weighted Sum Based Approach for Solving Stochastic Multi-objective Economic Dispatch Problems Incorporating CHP Units" ; **IAENG International Journal of Computer Science**, 44:4, IJCS\_44\_4\_10, 2017
- lxvi K.O.Alawode, A.M.Jubril, L.O.Kehinde, P.O.Ogunbona, "Semidefinite programming solution of economic dispatch problem with non-smooth, non-convex cost functions". **Electric Power Systems Research**, Elsevier; Volume 164, Pages 178-187; November 2018.
- lxvii **K.P. Ayodele, O. Ogunlade, O.J. Olugbon, O.B. Akinwale, L.O. Kehinde:** A medical percussion instrument using a wavelet-based method for archivable output and automatic classification, *Computers in Biology and Medicine*, Volume 127, **2020**, 104100, ISSN 0010-4825, <https://doi.org/10.1016/j.compbimed.2020.104100>. (<https://www.sciencedirect.com/science/article/pii/S0010482520304315>)
- lxviii **Kayode P Ayodele, Femi J Olugbon, Oluwadare Ogunlade, Olawale B. Akinwale, Oluwasegun T. Akiniyi, Lawrence O Kehinde.** "A mobile Percussograph for medical Examination of the Torso". *FUOYE Journal of Engineering and Technology (FUOYEJET)* Volume 5, Issue 2, September **2020**, ISSN:2579-0625 (Online), 2579-0617 (Paper).

#### 4. Edited and Refereed Conference Proceedings

- lxix. **O.I. Asubiojo, L.O. Kehinde, A.H.M. Hannan, A.F. Oluwole;** "Application of Neutron Activation Analysis in Science, Crime Investigation, Biology and Medicine", *Proc. Int. Energy Conference on Role and Potentials of Nuclear Energy in Nigeria*, University of Ife, pp. 173 - 181, 1983.
- lxx. **L.O. Kehinde and E.E. Ekuwem;** "Path to Transfer of Technology - Tortuous Or Transgenerational Leap" (1991): *Proceedings of The National Conference on Future of Engineering Education in Nigeria*, pp. 168, July 17 - 19, Lagos, Nigeria.
- lxxi. **L.O. Kehinde and E.E. Ekuwem;** "Instructional Aids: Demonstrating the Practicality of the Theoretical: (1991): *Proceedings of the National Conference on Future Engineering Education in Nigeria*, pp. 144, July 17 - 19, Lagos, Nigeria.
- lxxii. **L.O. Kehinde and E.E. Ekuwem;** "Efforts at Development of Appropriate Instruments, Instruments Systems, Instrument Network and Telecommunication Links for Meteorological and Environmental Monitoring Purposes", (1992): *Proceedings of World Meteorological Technical Conference (WMO) on Instruments and Methods of Observation*, International Centre, Vienna, Austria. Report No.49, pp. 54 - 58.
- lxxiii. **L.O. Kehinde & E. E. Ekuwem;** "Planning stages of a well-coordinated computer-based meteorological telecommunication system in Nigeria.", *Proceedings of the International*

Symposium on future Telecommunication and the Electromagnetic Environment, Eilat, Israel, pp. 157-167, Jan 1995.

- lxxiv. **L.O. Kehinde and T.R. Ojetayo**; "A computer-based industrial controller and data acquisition system" : Proceedings of Computer Association of Nigeria (COAN), International Conference on Computer-based automation in developing countries, Vol.6, 1995, pp. 37-42.
- lxxv **G. O. Ajayi, M. O. Bello, L. O. Kehinde**; "Wireless solutions to Telecommunications Infrastructure in Nigeria". Proc. C.O.A.N Conference Series; Volume 9, 1998; pp 107-113.
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- lxxvii. **Olabiya, O. Kehinde, L., Ayodele K.P, Ilori O.** (2006): Development and Simulation of an Algorithm for Dimensioning UMTS air Interface for Coverage and Capacity Prediction. Proceeding of International Conference and Workshop on Third Generation (3G) GSM and Mobile Computing: An Emerging Growth Engine for National Development. pp 142-152. January 2007. Otta.
- lxxviii. **Oluwaranti, A.I.; Kehinde, L.O., Ninan D.F. Onyung, A. E.** (2007) "Development Of A Multi-Microcontroller Configuration System For Fingerprint Matching" Proceedings of the International Conference on Application of ICT to Teaching, Research, and Administration (AICTTRA) 2007. Vol 2. Pp. 74 – 81. OAU, Ile-Ife, Nigeria, September 23-27, 2007.
- lxxix. **O.O. Abiona, O.A.T. Aladesanmi, C.E. Onime, O.A. Adewara, L.O Kehinde**, "Enhancing University Wireless Network Security using Peer-to-Peer Security Model", Proceedings of the International Conference on Application of ICT to Teaching, Research, and Administration (AICTTRA) 2007. Vol 2. Pp. 146 – 155. OAU, Ile-Ife, Nigeria, September 23-27, 2007.
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- lxxxii. **O.O. Abiona, T. Anjali, and L. O. Kehinde**, "Simulation of a cyclic multicast proxy server", IEEE International Conference on Electro/Information Technology (EIT), Ames, Iowa, pp. 102-107. May 18-20, 2008.
- lxxxiii. **K.P. Ayodele, L.O. Kehinde, O.P. Jonah, O.O. Ilori, O.O. Osasona, E.O.B. Ajayi**; "Development Of An Operational Amplifier Virtual Laboratory Based On Ilab Architecture And Ni Elvis" Proc. of the 2008 ASEE Annual Conference & Exposition, paper AC2008-1098; June 22 - 25, 2008- Pittsburgh, PA. USA. (Nominated for best paper).
- lxxxiii. **O. Olowokere, K.P. Ayodele, L.O. Kehinde, O.P. Jonah, O.A., Akinwunmi, T.O. Ajayi**; "Realistic Looking Interfaces: In Search of the Best Ergonomic Metaphors for Remote and Virtual Laboratory Interfaces" Proc. of the 2008 ASEE Annual Conference & Exposition, Paper 2008-1316, June 22 - 25, 2008- Pittsburgh, PA.

- lxxxiv. **O. Olowokere, O.P. Jonah, L.O. Kehinde, K.P Ayodele, O.O. Osasona, E.O.B. Ajayi;** “Human and Infrastructure Issues in The Development of Web-Based Laboratories in Challenged Environments” Proc. of the 2008 ASEE Annual Conference & Exposition, Paper AC2008-1375; June 22 - 25, 2008- Pittsburgh, PA.
- lxxxv. **O. Akinwale, L. O. Kehinde, K. P Ayodele, A. M. Jubril , O. P. Jonah, Soji Ilori, Xuemin. Chen** (2009). A LabVIEW-based online robotic arm for students’ laboratory. Proc. of the 2009 ASEE Annual Conference & Exposition, Paper 2009-1179; June 14 – 17, 2009. Austin, TX.
- lxxxvi. **K. P. Ayodele, O. Akinwale, L. O. Kehinde, O. Osasona, E.O.B Ajayi, O.O. Akinwunmi** (2009) Advanced Digital Laboratory: An FPGA-Based Remote Laboratory for Teaching Digital Electronics (2009). Proc. of the 2009 ASEE Annual Conference & Exposition, Paper AC 2009-1206; June 14 - 17, 2009 - Austin, TX.
- lxxxvii. **Xuemin Chen, Lei Jiang, Darayan Shahryar, Lawrence Kehinde, and David Olowokere.** “Technologies for Development of Virtual and Remote Laboratories – A Case Study.” Proc. of the 2009 ASEE Annual Conference & Exposition, Paper 2009-1350. June14 - 17, 2009- Austin, TX.
- lxxxviii. **A. I. Oluwaranti, O.O. Abiona, C.E. Onime, A.T. Toki and L.O. Kehinde** (2009) “Implementation of a GSM-Based Remotely Controlled and Monitored Machine System.” Proceedings of MIPRO, Croatia, May 25-29, 2009. pp. 115-120
- lxxxix. **O.O. Abiona, A. I. Oluwaranti, T. Anjali, C. E. Onime, E.O. Popoola, G.A. Aderounmu, A.O. Oluwatope and L.O. Kehinde,** “Architectural Model for Wireless Peer-to-Peer (WP2P) File Sharing for Ubiquitous Mobile Devices”. 2009 Proceedings of IEEE International Conference on Electro/Information Technology (EIT), Windsor, Ontario, Canada. pp. 35-39, June 7-9, 2009.
- Xc .**X. Chen, Yongpeng Zhang, L. Kehinde, and D. Olowokere,** “Developing Virtual and Remote Undergraduate Laboratory for Engineering Technology,” Proceedings of ASEE Annual Conference & Exposition, Paper 2010-1574; Louisville, KY, June, 2010.
- xc. **S.A. Bello, O.O. Abiona, A.O. Oluwatope, M.L Sanni, C.E. Onime S.I. Eludiora, G.A. Aderounmu, E.R. Adagunodo and L.O. Kehinde,** “An e-Business Grid Model Architecture for Small and Medium Scale Enterprises”, Proc. IEEE International Conference on Electro/Information Technology (EIT2010), Normal, Illinois, USA, pp. 1-6, May 20 – 22 2010.
- xcii. **O.B. Akinwale, K.P. Ayodele, A.M. Jubril, L.O. Kehinde, O. Osasona, O. Akinwunmi, A.T. Asimwe, C. Mwikirize, P.I. Musasizi, S. Tickodri Togboa, A. Katumba, J. Butime, J. P. Nombo, M. M. Baraka, S. Teyana, Mwambela J. A. and Kissaka M. M.** (2011): Online Laboratories: Enhancing the Quality of Higher Education in Africa. Proceedings of Conference of Rectors, Vice-Chancellors and Presidents of African Universities, COREVIP 2011, Stellenbosch, South Africa.
- xciii. **Ishola B.I., Ayodele K.P., Kehinde L.O., Akinwale O.B., and Aboluwarin O.O.** (2012) “An improved Operational Amplifier iLab with a Realistic Looking Interface”. *Proceedings of the ASEE Annual Conference and Exposition, 2012, San Antonio, USA.*

- xciv. **Aboluwarin O.O., Kehinde L.O., Ayodele K.P., Ishola B.I.** (2012) "Remote Realistic Interface Experimentation Using the Emona DATEx Board". *Proceedings of the ASEE Annual Conference and Exposition, 2012, San Antonio, USA.*
- xcv. **Oluyemisi Satope, Isaiah Boboye, Olawale Akinwale, Francis O. Asubiojo, Lawrence O. Kehinde** (2014), "Development of a Suite of Virtual Experiments for Physics and Chemistry Undergraduate Laboratories". **Paper ID#8876, Proceedings, 121<sup>st</sup> ASEE Annual Conference and Exposition. Convention Center, Indianapolis, June 15-18, 2014.**
- xcvi. **O. Olorunniwo, L. O. Kehinde, M.A. Olorunniwo** (2014) "Global WSN Developments: Fractal or Chaos" Proc. of Picmet '14: Infrastructure and Service Integration, KAIST Kanazawa, Japan July 27-31, pp 609-619.
- xcvii. **Obasegun. T. Ayodele, Lawrence. O. Kehinde, Olawale. Akinwale** (2015) "Induced Collaborative Engagement for a 'Solution-to-Question' Model Using Remote Experimental Laboratories as a Tool". **Paper ID#11589, Proceedings, 122nd ASEE Annual Conference and Exposition. Convention Center, Seattle, June 14-17, 2015.**
- xcviii. **Tolulope Odetola, Obasegun Obateke Ayodele, Caleb Onigbinde, Lawrence Olakunle Kehinde**, "Development of a Competitive And Collaborative Platform for Block Diagram and Resistive Circuit Reduction in a Basic Electrical Engineering Course", Proceedings of IEEE Global Engineering Education Conference (EDUCON), pp. 20-24, 10-13, April 2016, Abu Dhabi UAE.
- xcix. **Lawrence O. Kehinde, Obasegun Tekena Ayodele, Olubiyi O Akintade, Kazeem Olaide Olawale.** "Development of a Module to Teach Basic Concepts of Interfacing and Connectivity in Internet of Things"; Paper 14532, Proceedings, 123rd ASEE Annual Conference and Exposition. Convention Center, New Orleans, June 26-29, 2016.

**Past Un-refereed Conference Proceedings:**

- c. **L.O. Kehinde and E.E. Ekuwem;** "Development of Meteorological Instrumentation: A National Socio-Economic Imperative", (1989), Proceeding of the International Symposium on Meteorological Hazards and Development, Lagos, Kano, Nigeria.
- ci. **E.E. Ekuwem and L.O. Kehinde;** "Development of a Dense National Meteorological Instrument and Telecommunication Network", (1990): Proceedings of Meteorological Symposium, Department of Meteorological Service, Lagos, Nigeria.
- cii. **L.O. Kehinde and E.E. Ekuwem;** "An Appropriate Instrumentation Technology for the Measurement of Air-borne Environmental Pollutants", (1990): Proceedings of the First National Environmental Seminar on INDUSTRY AND THE NIGERIAN ENVIRONMENT. Lagos Sheraton, Nigeria.
- ciii. **E.E. Ekuwem and L.O. Kehinde;** "Climate Change, Global Warming and Environmental Degradation Techno-managerial Imperatives", (1991): Proceedings of the 8th Departmental Symposium, Meteorological Services, Lagos, Nigeria.
- civ. **L.O. Kehinde and E.E. Ekuwem;** "Efforts at Instrumentation and Telecommunication Development for Meteorological, Oceanographic and Environmental Monitoring purposes", (1991). Presented by E.E. Ekuwem at the Second College on Theoretical and Experimental Radio propagation Physics, I.C.T.P., Trieste, Italy.

- cv. **L. O. Kehinde** “Machine Learning for Scientific Discoveries”. **Emeritus Prof. Oyewusi Ibidapo-Obe Memorial Symposium-1, Lagos Nigeria (2022, 7<sup>th</sup> January).**

## **6. Articles Accepted for Publication**

- cvi **O. Olorunniwo and L.O. Kehinde** “Development of Stochastic Modelling of GNSS/GPS Position Measurements”. *Ife Journal of Science*.

## **5. Creative Work**

- i. Design of an Automatic Diffusive Resistance Meter, University of Ife, 1980.
- ii. Design of an Industrial Noise Dosimeter, University of Ife, 1980.
- iii. Designed the first operating traffic light system on the University Campus in conjunction with two technologists.

## **6. Technical /Project Reports**

- i. **L.O. Kehinde;** "An experiment with data transmission", Philips Technical Report, Netherlands, 1972.
- ii. **L.O. Kehinde;** On the operation of the J.K. Flip-flop under different clock pulses widths", Department of Electronic and Electrical Engineering, University of Ife, 1973.
- ii. **L.O. Kehinde;** "Digital Computer Aid to the Root Loci Plots of Control Systems", 1976, Department of Electronic and Electrical Engineering, University of Ife.
- iii. **L.O. Kehinde;** "An automatic speed controller circuit for chart recorders used in Rainfall Intensity Measurements", Obafemi Awolowo University, Ile-Ife, 1988.
- iv. **L.O. Kehinde; H. Mustapha; D. Adeleke;** Department of Mechatronics Engineering; FUNAAB Design of PLC Trainers. TK-0121 and TK 0221 (2021)

## **F. Professional accomplishments**

- a. **Best Paper Award Nomination**  
**K.P. Ayodele, L.O. Kehinde, O.P. Jonah, O.O. Ilori, O.O. Osasona, E.O.B. Ajayi;** “Development Of An Operational Amplifier Virtual Laboratory Based On Ilab Architecture And Ni Elvis” Proc. of the 2008 ASEE Annual Conference & Exposition, paper AC2008-1098; June 22 - 25, 2008- Pittsburgh, PA . USA.  
(Nominated for best paper).
- b. **Award for Best Paper**  
**Kayode P. Ayodele, Member, IEEE, Isaac A. Inyang, and Lawrence O. Kehinde, Member, IEEE** “An iLab for Teaching Advanced Logic Concepts with Hardware Descriptive Languages”; *IEEE Transactions on Education*, Vol. 58, No. 4, pp. 262-268. Nov 2015  
(Received IEEE outstanding paper award for Volume 58, calendar year 2015).

- c. **Patent awards**
- i. **L.O. Kehinde, L.A. Buraimoh-Igbo;** "Automatic Noise Measuring Equipment", Nig. Patent 44009, 1981 British Patent GB 20987338, 1984.
  - ii. **L.A. Buraimoh-Igbo, L.O. Kehinde, A.O. Adebona;** "Diffusive Resistance Measuring Equipment" Patent No.4471 Nigeria 1991, British Patent GB 2101746, 1984.
  - iii. **L. O. Kehinde, J. O. Utulu, O. D. Oderhohwo, O. Ogunlade**  
Medical Electronic Percussion Appliance (MEPA)  
Patent No. NG/PT/NC/2016/1957 -August 2017; Patent Certificate 001048
- d. Initiated the design of the Obafemi Awolowo University, Nigeria Traffic Light Systems
- e. Key member of the design group of the ICT infrastructure of the Obafemi Awolowo University

## **G. Conferences, Seminars and Workshops Attended with dates**

### **Most Recent**

1. Engineering Africa” Conference Abuja, Nigeria. 4th-6th March, 2007.
2. ASEE Annual Conference & Exposition, paper- Pittsburgh, PA . USA.; 2008
3. ASEE Annual Conference & Exposition, Austin, TX USA June 14 – 17; 2009..
4. ASEE Annual Conference & Exposition,; Louisville, KY, USA, June, 2010.
5. ASEE Annual Conference and Exposition, San Antonio, USA. 2012
6. 121<sup>st</sup> ASEE Annual Conference and Exposition. Indianapolis USA, June 15-18, 2014
7. 122nd ASEE Annual Conference and Exposition, Seattle USA, June 14-17, 2015.
8. IEEE Global Engineering Education Conference (EDUCON), Abu Dhabi UAE, April 2016,.
9. 123rd ASEE Annual Conference and Exposition, New Orleans USA, June 26-29, 2016.

## **H. Recent Research Activities:**

- Electronic Instrumentation Design
- Virtual and Remote Labs Designs
- Design of Programmable Logic Controller Trainers.

## **I. Relevant Information**

### **1. Past Services Within an Academic Department**

- a. Head, Department of Electronic & Electrical Engineering 1988 – 1991
- b. Industrial training coordinator for the Department
- c. Leader and member of several research project teams on Instrumentation
- d. Chairman of the Departmental Committee on Department’s new building
- e. Mentor to Academic and Technical Staff

### **2. Past Services Within an Academic Faculty**

- a. Dean. Faculty of Technology, Obafemi Awolowo University from 1st August 1998 till July 31, 2000.
- b. Vice-Dean, Faculty of Technology 1990 – 1992
- c. Member, Faculty of Technology Research Committee
- d. Chairman, Faculty of Technology Postgraduate Committee
- e. Chairman, Faculty Consultancy Committee.

f. Past Editor, Ife Journal of Technology, Nigeria

**iv. Past Services Within a University**


- a. Deputy Vice-Chancellor (Administration), Obafemi Awolowo University, Ile-Ife, Nigeria 2001-2005.
- b. Past Dean, Faculty of Technology Obafemi Awolowo University
- c. Past Chair, Department of Electronic and Electrical Engineering, Obafemi Awolowo University, Ile-Ife. NIGERIA.
- d. Member, Management Board of Centre for Energy Research and Development, Obafemi Awolowo University, Ile-Ife.
- e. Past Member, Board of Survey; Obafemi Awolowo University.
- f. Chairman, Committee on Electricity Supply, Distribution and Management on Campus
- g. Member, University Disciplinary Panel on Students
- h. Past Member, Project Implementation Committee on NUNET at O.A.U.
- i. Past Director of Technical Training. OAUNET, Obafemi Awolowo University.
- j. Initiator of Traffic Light Control Design on O.A.U Campus, Ile-Ife.
- k. Coordinator for **iLabs** research at Obafemi Awolowo University, Nigeria, in collaboration with Massachusetts Institute of Technology, (MIT) USA.
- l. Spiritual and academic adviser and patron to various student bodies at Obafemi Awolowo University.

**v. Services Outside the University**

- a. Assessor to various National journals
- b. External Examiner to various Universities
- c. Past Chairman, Publications Committee, Computer Association of Nigeria.
- d. Past Editor, Journal of Computer Science & its Applications.
- e. Past Member, URSI Commission A on Electromagnetic Metrology.
- f. Past Chairman, Conferences Committee, Computer Association of Nigeria.
- g. Past Member of Engineering Accreditation team.
- h. Referee for ASEE articles since 2009.
- i. Referee for IJEE
- j. Editorial Board Member, Science Research Association
- k. Referee for IEEE Transactions in Education
- l. Designed a course Artificial Intelligence for Texas Southern University, USA.

**J. Contribution to Knowledge**

- a. Design of patented Specialized Instruments
- b. Lead designer of virtual and on-line Laboratories

Signature: 

Date: 2026