**AFOLAYAN ANDREW OLUMIDE**

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**ADDRESS:SCIENCE LABORATORY TECHNOLOGY DEPARTMENT,**

**THE FEDERAL POLYTECHNIC,**

**P. M. B. 50, ILARO.**

**PHONE NO: 08030735116**

**1. BIODATA**

1. Name: AFOLAYAN, ANDREWOLUMIDE
2. Date & Place of Birth: 18th November, 1969/Igogo-Ekiti
3. Gender: Male
4. State of Origin: Ekiti State
5. Nationality:Nigerian
6. Marital Status: Married
7. Religion: Christianity
8. Contact Address: Science Lab. Tech. Department
9. Email Address: flyn\_olumide@hotmail.com
10. Telephone Number: +2348030735116
11. Present Position: Lecturer I

**2. INSTITUTIONS ATTENDED WITH DATES**

 a. Adekunle Ajasin University, Akungba Akoko, Ondo State. 2017 – Date

 b. Olabisi Onabanjo University Ago-Iwoye, Ogun State Nigeria.2010 – 2014

 c. Federal University of Technology, Akure. 1998 – 2000

 d. Federal Polytechnic, Ado-Ekiti. 1992-1994

 e. Ondo College of Basic Science, Ikare-Akoko 1988

 f. Igogo Commercial High School, Igogo-Ekiti 1981-1987

**3. ACADEMIC QUALIFICATIONS WITH DATES**

 a. Ph.D. Physics In View

1. Master of Science (M.Sc.) Physics 2014
2. Bachelor of science (BSc) Physics with Electronics 2018
3. PGD in computer science (Hardware) 2000
4. HND 1994
5. W.A.S.C. 1987

**4. MEMBERSHIP OF PROFESSIONAL BODIES**

a.Member, Nigerian Institute of Physics (MNIP).

 b.Member, Nigeria Institute of Science Laboratory Technology(MNISLT)

**5.WORKING EXPERIENCE**

 a. NYSC: WAPCO PLC, Ewekoro, Ogun State.

1. **Responsibilities**
* Repair of Equipment and Maintaining Cement Lines
* Process Control and instrumentation
* Designing and Construction of Simple system to facilitate equipment and system performance

 **b. Academic Experience**

* LECTURER: The Federal Polytechnic, Ilaro. 1996- Date

ii. **Responsibilities/Courses Taught**

* Lecture Physics courses at all levels
* Supervise Students’ Projects
* Carry out researches
* Undertake responsibilities that may be assigned from time to time

 iii. Research Interest:

* Physics of ionosphere and interplanetary systems, magnetosphere and total electron content(TEC)

**6. ADMINISTRATIVE POSITION WITHIN THE POLYTECHNIC**

1. Member, Polytechnic 40th Anniversary sub-committee 2019
2. Member, Polytechnic equipment repair committee 2019
3. Member, Polytechnic 40th Anniversary Sub-committee 2019
4. Member, Polytechnic equipment repair committee 2019
5. Member, Polytechnic accreditation committee 2014 to date
6. Member, Polytechnic Sport Committee 2014 to date
7. Member Polytechnic 20th Anniversary subcommittee 1999
8. Member Federal Polytechnic Student Union Electoral

Committee 1998

1. Member, Departmental Accreditation Committee. Till date
2. Member, Project Committee Till date
3. NASTES Adviser SLT Department 2003 – 2006
4. Member, Departmental Social Committee 1997 – 2009
5. Member, Departmental Welfare Committee 2010 – 2012

**7. SERVICES OUTSIDE THE FEDERAL POLYTECHNIC, ILARO**

1. Member, accreditation panel Federal Polytechnic, Idah
2. Member, accreditation panel Federal Polytechnic, Auchi
3. Member, accreditation panel Sokoto State Polytechnic, Sokoto
4. Member, accreditation panel Zamfara State Polytechnic, Zamfara
5. Member, accreditation panel Jigawa State Polytechnic, Jigawa
6. Member,accreditation team, ICT Polytechnic, Itori Ewekoro.
7. Member,accreditation team Federal Polytechnic, Ekowe, Bayelsa State
8. Member, accreditation panel Niger State School of Science and Technology Education.

**8. ACADEMIC PUBLICATIONS**

**a. Journal Publications:**

i. Afolayan, A.O and Q.A .Adeniji (2018).Opto-Electrical Characterization of chemically Deposited Tin Bismuth Sulphide (TBS) Thin Film for Solar Energy Application. *World Journal of Innovative Research (WJIR),* 5(5).

ii.Afolayan, A.O and Q.A .Adeniji (2018).Performance Test of a Solar Refrigerator Temperature on Water, Milk and Honey. *International Journal of NewTechnology and Research*, 4(11), 34-38.

iii. Afolayan, A.O and Q.A .Adeniji (2018). Annealing Effect on Optical Properties of Thalium Sulphide (TI2S) Thin Films. *International Journal of Science andResearch (IJSR),* 7(11). DOI: 10.21275/ART20192786.

iv. Afolayan, A. O. (2015). Pattern Recognition using Neural Network and class of Grades. *International Institute of Science and Technical Education (IISTE)* (Network and Complex System), 5 (20).

v. Afolayan, A. O. (2015). Rational Model and Probability of Infection *International Institute of Science and Technical Education (IISTE),*5 (2).

vi. Afolayan, A. O. (2013). Neutral Network in Evaluation of Staff Performance. *Journal of management and technology (JORMATECH),* 2 (2).

vii. Afolayan, A. O. (2013). Combating Car Theft with a Microprocessor -Based Electronic Device. *Journal of Management and Technology (JORMATECH)* 2 (2).

**b. Book Publications:**

 i. Afolayan, A.O. (2018). Fundamentals of Microelectronics, first edition.

 ii. Afolayan, A.O. and Ojuawo, S.O. (2015). Physics for Natural Science Students, 3rd edition.

**c. Conference Papers:**

1. Afolayan, A.O and Afolayan,O.T (2018). Space mission; Satellite with its myriads of technological innovation necessary for enhancing economic growth in Nigeria. Paper presented at the first international conference held at the federal polytechnic, Ilaro,5th-8th,November, 2018
2. Afolayan, A.O. and Olaifa, B.A.(2017). Investigating the effects of terrestrial Atmospheric Conditions on free space Optics Communication. Paper presented at theNational conference of the schools of pure and Applied Sciences and Communication and Information Technology, Ilaro, 4th-7th December.
3. Afolayan A.O.(2017). Satellite Technology as an aid to economic recovery in Nigeria.Paper presented at the annual national conference of the School of Management Studies, the Federal Polytechnic, November, Ilaro 28th -30th.
4. Afolayan, A. O., (2015). Chemo-Mechatronic System; An emerging technology in combating car theft in a developing nation. Paper presented at the 3rd National Conference of the school of Applied Science 15th – 18th June.
5. Afolayan, A. O. (2015). Multi-Disciplinary approach to combating terrorism in Nigeria. Paper presented at the ASUP Zone C National Conference Ilaro 11th – 14th May.
6. Afolayan, A. O. and Afolayan, O.T. (2013). Neural Network as a Tool for the assessment of credit worthiness of loan applications in Nigerian banks. Paper presented at the 2nd National Conference of the School of Applied Sciences, federal Polytechnic, Ilaro: 6th – 9th May.
7. Afolayan, A. O. (2013). Fuel – Less Generator as an Alternative Means of Power Generation in Nigeria. Paper presented at the 2nd National Conference of the School of Applied Science, federal Polytechnic, Ilaro. 6th – 9th May.
8. Afolayan, A. O.; Afolayan, O.T. and Ojuawo, S.O. (2007). Neural Network: An Aid to Staff Performance Evaluation (A case study of Federal Polytechnic, Ilaro). Paper presented at the 2nd Ilaro ASUP National Conference 10th – 13th September.
9. Afolayan, A. O. and Afolayan, O.T. (2006). Applications of Expert System in Modern Day Technology in Nigeria. Paper presented at the 1st Ilaro ASUP National Conference held at the Federal Polytechnic, Ilaro 5th – 8th June.

**9. COMMUNITY SERVICE**

**a.** Member of a reputable club that has:

* Donated cash and kind to handicapped school and motherless babies’ home.
* Organized quiz competitions for secondary schools in Yewa.
* Donated computers and scientific materials to schools in Yewa.
1. **PERSONAL PROJECT ALREADY COMPLETED**

Design and Construction of an Embedded System with arrest Mechanism

Design and Construction of a Digital Capacitance Maker.

Design and Construction of four digit object counter

Design and Construction of Boyles Law Apparatus

Design and Construction of Charles law Apparatus

Design and Construction of a Ripple Tank

Design and Construction of a 15V Power Supply

Design and Construction of an Hypsometer

Design and Construction of a Zearlears Apparatus (on going).

1. **SUPERVISED PROJECTS**
2. Design and Construction of an FM Transmitter
3. Design and Construction of Metal Detector
4. Design and Construction of 6V Power Supply
5. Design and Construction of 15V Power Supply
6. Design and Construction of Stabilised Power Suppy
7. Design and Construction of level Gauge
8. Design and Construction of Potentiometer
9. Design and Construction of home security system
10. Design and Construction of Burglar Alarm
11. Design and Construction of Siren
12. Design and Construction of Voltmeter
13. Design and Construction of Capacitance Level Detector.
14. **EXTRA-CURRICULAR ACTIVITIES**

 i. Designing especially with microprocessors and controllers

 ii. Playing Lawn Tennis

 iii. Designing automated electronic circuits of different kind

1. **REFEREES**
2. **Professor Kola Odunaike,**

Dean, Faculty of Science,

Olabisi Onabanjo University,

Ago-Iwoye,

Ogun State.

1. **Dr. Olaoye**

Head of Department of Physics,

Olabisi Onabanjo University,

Ago-Iwoye,

Ogun State.