

CURRICULUM VITAE

Name: OKUSANYA, MUYIWA ABIODUN

Date of Birth: 28/12/1978

Gender: Male

State of Origin: Ogun State

Local Government Area.: Ijebu North

Nationality: Nigerian

Marital Status: Married

No. of Children: Three

Religion: Christianity

Postal Address: Department of Agricultural & Bioenvironmental Engineering, Federal Polytechnic Ilaro, P.M.B. 50, Ilaro, Ogun State.

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Present Status: Lecturer II

Date of Last Promotion: January 1st, 2021

Year of Latest Job Offer: November 30, 2015.

EDUCATIONAL INSTITUTIONS ATTENDED WITH DATES

1. National Teachers' Institute, Kaduna, Nigeria
2. University of Ibadan, Ibadan
3. Nigerian Institute of Management (Chartered)
4. Obafemi Awolowo University, Ile-Ife, Osun State
5. Federal College of Agricultural, I.A.R.&T, Moor Plantation, Ibadan

EDUCATIONAL QUALIFICATIONS OBTAINED

1. Post Graduate Diploma in Education **2015**
2. M.Sc. Agricultural & Environmental Engineering (Farm Power Option) **2011- March 2013**
3. Graduate Member of Nigerian Institute of Management (MNIM)- **July 2009**
4. B.Sc. Agricultural Engineering (Farm Power Option) **2001-2007**
5. National Diploma (ND) Agricultural Engineering- **1999-2001**
6. WASC **2019**

MEMBERSHIP OF PROFESSIONAL BODIES

1. Corporate Member of Council for the Regulation Of Engineering in Nigeria(COREN) (COREN No: R56641) **June, 2020**
2. Corporate Member of Nigerian Society of Engineers(NSE) (NSE No:47148) **April, 2018**
3. Member, International Association of Engineers, (IAENG:171249) **May, 2016**
4. Graduate Member of Nigerian Society of Engineers (SNE:403410591) **2013**
5. Graduate Member of Nigerian Institute of Management (MNIM: 132999) **2009**
6. Member of Nigeria Computer Society **2007**

WORKING EXPERIENCE

1. 1. LECTURER II **The Federal Polytechnic, Ilaro**
PERIOD **2020 – Till date**
2. LECTURER III **The Federal Polytechnic, Ilaro**
PERIOD **2019 – 2021**
2. ASSISTANT LECTURER **The Federal Polytechnic, Ilaro**
PERIOD **2015 – 2018**

Teaching Areas

1. Farm electrification (ABE 211)
2. Fluid Mechanics (MEC 214)
3. Introduction to Agricultural Engineering (ABE 101)
4. Postharvest Technology and Storage (ABE 225)
5. Postharvest Technology and Biology (AGT 128)
6. Farm Power (ABE 215)

7. Introduction to Calculus (GME 101)
8. Heat Engine (ABP 312)
9. Computer Applications (ABE 325)

Research Interest

1. Alternative Power from renewable sources
2. Farm Power and Machinery
3. Crop Processing Machines
4. Food Security
5. Environmental Cleanliness

ADMINISTRATIVE POSITION HELD:

1. Head of Research Committee in Agricultural and Bioenvironmental Engineering Department, Federal Polytechnic, Ilaro, from 2016 till date.
2. Head of Students' Project Committee: Department of Agricultural and Bio - Environmental Engineering, Federal Polytechnic, Ilaro. From 2016 to date.
3. Member of Subcommittee on Exhibition for 40th Anniversary of Federal Polytechnic Ilaro, Ogun State (2019).
4. Member of FPI Main Research Team on COVID 19 Intervention Machines (Ventilator, Multiple Hand washing & Sanitizing Machine, Booth Sanitizer etc.) (2020 till date)
5. Secretary to Committee on Nigerian Society of Engineers (NSE) Conference, Ilaro Branch (2020).
6. Member of Committee on Engineering Investment Credit Society (EIC) Account Audit (March, 2021)

MEMBERSHIP OF COMMITTEES IN THE FEDERAL POLYTECHNIC, ILARO

1. Member of Subcommittee on Exhibition for 40th Anniversary of Federal Polytechnic Ilaro, Ogun State.
2. Member of FPI Main Research Team on COVID 19 Intervention Machines (Ventilator, Multiple Hand washing & Sanitizing Machine, Booth Sanitizer etc.) (2020 till date)

SERVICES OUTSIDE THE FEDERAL POLYTECHNIC, ILARO

1. Secretary to Committee on Nigerian Society of Engineers (NSE) Conference, Ilaro Branch (2020).

PUBLISHED JOURNAL ARTICLES

1. Odunlami S.A., Jesusina B.M., Akintade J.O., Afolayan A.O., Chapi S.P., Ogunyemi J., Adetona Z.A., Fakeye A.B., **Okusanya M.A.**, Oloyede E., Uwem U., Balogun A., Olasina J.R., Jaiyeoba B.O. (year) Design and Construction of a Prototype Mechanical Ventilator for Rural Communities in Poor Countries. - (Awaiting Publication in a Reputable Journal)
2. Chapi S.P., Adio M.A., Balogun A.B. and **Okusanya M. A.** (year). Conversion of a Scissors Mechanical Jack to An Automated Car Jack System Using An Internally Powered Source - (Awaiting Publication in a Reputable Journal)
3. Oluwagbayide S.D., **Okusanya M.A.**, Amori A.A., and Akintade J.O. (2020). Effect of Water Stress on Crop Yield and Water Productivity of Drip-Irrigated Pepper (Capsicum Spp.) in Southwest Nigeria. Published in International Journal of Experimental Agriculture (JEAI), Volume 42, Issue 8, **October**. pg 131 – 143. DOI: <https://doi.org/10.9734/jeai/2020/v42i830579>
4. **Okusanya M.A.** and Ibrahim G.W. (2020). Design and Development of Plastic Crusher for a More Efficient Waste Management Practice. Published in **IJIRD** Journal, Volume 9, Issue 8, **August**., DOI No.: 10.24940/ijird/2020/v9/i8/AUG20075 Page 299. www.ijird.com
5. **Okusanya** and Oladigbolu A.A (2020). Development of a Motorised Thresher for Paddy Rice Processing. Published in International Journal of Scientific & Engineering Research Volume 11, Issue 2, **February-2020** 821 ISSN 2229-5518, Pg 821 – 836. IJSER © 2020 <http://www.ijser.org>
6. **Okusanya M.A.**, Ibrahim G.W and Ogunlade C.B. (2019). The Use of Ethanol Gel Cook-Stove as a more Accessible Alternative Cooking Energy – Published in International Journal of Engineering and Science Invention (IJESI), Volume 08, Issue 10, series 1, **October, 2019**. ,www.ijesi.org
7. Ajav E.A., **Okusanya M.A.** and Obi O.F. (2018). Jatropha Oil Extraction Optimization through Varied Processing Conditions Using Mechanical Process - Published in **IJIRD** Journal, Volume 7, Issue 9, **September, 2018**. DOI No.: <https://10.24940/ijird/2018/v7/i9/SEP18058> www.ijird.com

CONFERENCES ATTENDED WITH PAPERS PRESENTED

1. **Okusanya M.A.**, Oluwagbayide S.D. and Balogun A. (2021). Design and Development of an Eco-friendly Deterrent System for Crop Raiders – Yet to be presented in the 5th National Conference of School of Pure and Applied Sciences, The Federal Polytechnic Ilaro, Ogun State (August, 2021).
2. **Okusanya M.A.** and **Adenigba A.A.** (2020). Ergonomic development of a pedal-operated hand washing machine to ameliorate the deadly effect of covid 19 pandemic. 2nd International Conference of The Federal Polytechnic Ilaro, Ogun

State, held 10th – 11th **November, 2020. (Virtual)** – Emerging Trends in TVET as a Contributor to Economic Transformation for Global Competitiveness.

3. **Okusanya M.A.** Oluwagbayide S.D. (2019). Impact of Improved Smoking Kiln Design on Hygiene And Timeliness of Drying Of Smoked Fish - Conference Paper in 4th School of Engineering National Conference, Federal Polytechnic Ilaro, Ogun State, held 25th - 28th **November, 2019.**
4. **Okusanya M.A.** (2018). Sustainable Engineering Infrastructure for Accelerated Rural Development – 2018 National Engineering Conference of The Nigerian Society of Engineers(NSE), held at Abuja on 30th **November, 2018.**
5. **Okusanya M.A** and Akintade J.O. (2018). Effect of Electrically Forced Air on Rate of Drying of Fish in Smoking Kiln. - 1st International Conference & Exhibition on Technological Innovation and Competitiveness. The Federal Polytechnic Ilaro, Ogun State, held 5th – 8th **November, 2018.**
6. Oluwagbayide S.D. and **Okusanya M.A.** (2018). Performance Evaluation of Sprinkler Irrigation Evaporation Losses in South Western Nigeria. – Conference Paper in 3rd National Conference of Academic Staff Union of Polytechnics (ASUP) Zone C Ado-Ewi, held 27th – 30th **August, 2018.**
7. **Okusanya M.A.**, Oluwagbayide S.D. and Ogunlade C.B. (2016). Design, Construction & Performance Evaluation of Wickless Ethanol Gel Cook Stove – Conference Paper in 3rd School of Engineering Conference, Federal Polytechnic Ilaro, Ogun State, held 7th - 10th **March, 2016.**

TRAININGS/WORKSHOPS/SEMINAR ATTENDED WITH DATES

1. Training on How to Write Good Journal Article or Technical Paper Organized by School of Engineering, **June 3rd – 4th, 2021.**
2. A Day Mandatory Continuing Professional Education Course for Prospective Corporate members – Organized by The Nigerian Society of Engineers Ado-Ekiti Branch, held **March, 2021.**
3. A – 3 day Mandatory Continuing Professional Education Course for Prospective Corporate Members (MCPE) - Organized by The Nigerian Society of Engineers Ibadan centre, held 12th – 14th **March, 2018.**
4. A Day Seminar/Workshop Organized for Cooperative Societies and Unions. Organized by Federal Polytechnic Ilaro Staff CICS LTD. Theme: Cooperative Integration for Efficient Service Delivery: A Panacea to Promote Business Diversification, held **November, 2018.**

UNPUBLISHED RESEARCH WORK

1. Design, Fabrication and Evaluation of Hand Operated Double Cage Dewatering Machine (B.Sc. Thesis, O.A.U., Ile-Ife, 2007.)
2. Modification of a Two Row Crop Planter (ND thesis, Federal College of Agriculture, Moor plantation, Ibadan, 2001).

GRANT / AWARD/HONOURS

1. Amori A. A., Akintade J.O., Fagbayide S. D. and **Okusanya M. A.** (2018). “Improving Water Use Efficiency in Pepper (*Capsicum Annuum L.*) Production under Drip Irrigation in Ilaro, Ogun State, Nigeria”. 2017 Research grant by the Tertiary Education Trust Fund (TETFUND). On-going Research.
2. Ogun State Scholarship for Undergraduate Studies at OAU, Ile-Ife. (2001 – 2007)

NOTAB PATENT ON INVENTIONS

1. Design and Fabrication of Process Line for Palm Oil and Palm Kernel Production by: Akintade J.O., Fagbayide S. D. , **Okusanya M. A.**, etc.

FEDERAL POLYTECHNIC ILARO, COLLABORATED GROUP RESEARCH WORK SPONSORED BY TETFUND:

1. Akintade J.O., Fagbayide S. D., **Okusanya M. A.** and Amori. A. A. (2016). Design and Fabrication of Oil Palm & Palm Kernel Oil Process Line. Tertiary Education Trust Fund, Abuja, Nigeria (TETFUND) Sponsored Project (2016) – Completed
2. Akintade J.O., Fagbayide S. D., **Okusanya M. A.** (2017). Design, Fabrication and Feed Processing Mills. Tertiary Education Trust Fund, Abuja, Nigeria (TETFUND) Sponsored Project (2017) – Completed
3. Akintade J.O., Adepegba, A., Fagbayide S. D., **Okusanya M. A.** Design and Fabrication of a Fruit Juice Processing Line. Tertiary Education Trust Fund, Abuja, Nigeria (TETFUND) Sponsored Project (2017) – On going.
4. Akintade J.O., Fagbayide S. D., **Okusanya M. A.** Design and Fabrication of Castor Oil Processing Machines. Tertiary Education Trust Fund, Abuja, Nigeria (TETFUND) Sponsored Project (2017) – Completed
5. Akintade J.O., Fagbayide S. D., **Okusanya M. A.** Design and Fabrication of Garri Processing Machines. Tertiary Education Trust Fund, Abuja, Nigeria (TETFUND) Sponsored Project (2020) – Completed

THESES

1. Design, Fabrication and Performance Evaluation of Jatropha Oil Expeller (Trainer Type)- (M.Sc. Thesis, UI, Department of Agricultural and Environmental Engineering, UI, Ibadan, 2013).

2. Design, Fabrication and Evaluation of Hand Operated Double Cage Dewatering Machine (B.Sc. Thesis, O.A.U., Ile-Ife, 2007.)
3. Modification of a Two Row Crop Planter (ND thesis, Federal College of Agriculture, Moor plantation, Ibadan, 2001).

CURRENT RESEARCH

1. Design and Fabrication of a Reactor for Biodiesel Production.
2. Design and Fabrication of a Reactor for Ethanol Gel Production.
3. Design of Eco-friendly Detergent System for Crop Raiders.

RESEARCH INTERESTS:

Farm Power and Machinery with special interest in renewable/alternative Power for Farm Use.

CONTRIBUTIONS TO THE SOCIETY

1. Career Volunteer Service as Physics Instructor in Anglican Grammar School, Ilaro (2021, Chairmanned by Engr. C.U. Okoye)

SKILLS

1. Software Programming in data base management (in view)
2. Hardware Engineering; Desktop Publishing & Graphics Training Program
3. The Use of Autocad for Agricultural Machines Design (2 D & 3 D)

REFREES

1. **Engr. Akintade Joshua Olatunji**
Head of Department (Former)
Agricultural & Bioenvironmental Engineering Department,
Federal Polytechnic Ilaro, Ogun State.
+2348034946444
2. **Mr Adepoju**
Bursar, The Bell University,
Ogun State, Nigeria.
3. **Prof. E.A. Ajav**
Former Dean, Faculty of Technology (M.Sc. Project Supervisor),
Department of Agricultural and Environmental Engineering,
University of Ibadan, Ibadan.
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