**CURRICULUM VITAE**

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| **i** | **Full names with surnames in Capitals** | **Thomas Aghogho ORHADAHWE** |
| **ii** | Postal Address/Email Address | Department of Mechanical Engineering, University of Ibadan, Ibadan Oyo State; thomasaghogho@gmail.com |
| **iii** | Mobile/Telephone Number | +2348161384314 |
| **iv** | Date of Birth | 23rd October 1988 |
| **v** | Marital Status | Married |
| **vi** | Local Government of Origin  | Ethiope East |
| **vii** | State of Origin | Delta State |

**viii.** **Educational** **Institution Attended (with dates)**

* University of Ibadan, Ibadan, Oyo State. 2020-date
* University of Ilorin, Ilorin, Kwara State. 2015-2017
* University of Benin, Benin City, Edo State. 2007-2012
* Ugborikoko Secondary School, Delta State. 2000-2006
* Eyabugbe Primary School, Delta State. 1994-2000

**ix Academic/Professional Qualifications with Dates**

|  |  |  |
| --- | --- | --- |
|  **A** | **Academic Qualifications** |  |
|  | MPhil/PhD conversion at the University of Ibadan [with distinction) | 2023 |
|  | PhD (Mechanical Engineering with emphasis on applied mechanics) | In view |
|  | M.Eng. (Mechanical Engineering) [with Distinction: 73.79% Aggregate] | 2018 |
|  | National Youth Service Corp [Cert. No: A002553742] | 2014 |
|  | B.Eng (Mechanical Engineering), Second Class Honours | 2012 |
|  | Senior Secondary School Certificate | 2006 |
|  | Primary School Leaving certificate | 2000 |
|  **B** | **Professional Qualifications** |  |
|  | Member, Nigerian Society of Engineers | In view |
|  | Registered Engineer, The Council for the Regulation of Engineering in Nigeria (COREN), R.48968 | 2019 |
|  | Certified Publons Reviewer Academy Graduate | 2020 |
|  | Certified Management Trainer, Nigeria Council of Management Development (NCMD) | 2020 |
|  | Student Member, America Society of Testing and Materials (1987274) | 2017 |
|  | HSE Supervisory level, ISPON, Warri | 2015 |
|  | General HSE, ISPON, Warri | 2015 |

**x Work Experience**

|  |  |  |  |
| --- | --- | --- | --- |
| S/N | Position Held | Organization | Dates |
| 1 | Lecturer II | Ajayi Crowther University, Oyo | 2021 till date |
| 2 | Project Officer | McGeorge Consulting Ltd., Ilorin | 2019 - 2021 |
| 3 | Mathematics/Physics Teacher | Emmanuel Baptist College, Ilorin | 2016 - 2019 |
| 4 | Mathematics/Further Mathematics Teacher | Crusaders Group of Schools Warri | 2014 - 2015 |

**xi Present Employment, Status, Employer, Experience, Research Interest**

 Position Lecturer II, Mechanical Engineering Department

 Date 2021- date

 Status Full Time

 Employer **Ajayi Crowther University**

 **Courses Taught**:

|  |  |
| --- | --- |
| **Courses Code** | **Title** |
| EME 2107 | Engineers in Society |
| EME 2202 | Engineering Drawing II |
| EME 3101 | Engineering Mathematics III |
| EME 3133 | Engineering Mechanics |
| EME 3125 | Computer Aided Design (CAD) |
| EME 3202 | Engineering Mathematics IV |
| EME 3213 | Material Science |
| EME 4111 | Technical Report Writing |
| EME 5113 | Engineering Law |
| EME 5161 | Mineral Processing and Extractive Metallurgy |
| EME 5228 | Physical Metallurgy |

 Other experience**:** Departmental Examination Officer

 Member, Departmental Quality Assurance committee

 Member, departmental CCMAS implementation committee

 Level Adviser

 Undergraduate project supervisor

 Research Interest: Applied Mechanics,

 System Engineering,

 Material Engineering,

 Renewable energy and renewable energy systems

 Additive Manufacturing

 **Projects Supervised**

1. Performance evaluation of the effect of nano particle composition with LPG refrigerant in vapour compression refrigeration system – Co-Supervisor
2. Computational studies on the synthesis of aluminium/rice husk ash composites – Main Supervisor
3. Design of a manual temperature regulator for a commercial bakery – Co-Supervisor
4. Development of a pedal operated cell phone charger – Co-Supervisor
5. Characterization of cow dung, food waste and Gmelina arborea for biogas production – Co-Supervisor

**xii List of Publication in details**

 **a. Articles in peer-reviewed journals**

(1) Adeleke, A.A., Ikubani, P.P., Odusote, J.O., Kolawole, L.T., **Orhadahwe, T.A**., Lawal, M.S. (2023). Physico-mechanical properties of polymer matrix composite material reinforced by carbonized cassava back peel and iron fillings. Accepted for publication in ACTA Metallurgical Slovaca (Scopus Indexed)

(2) **Orhadahwe T.A.,** Ajide, O.E.E., Adeleke, A.A. (2023). Investigation of date palm seed as a reinforcement in aluminium matrix composites. The 2nd International Conference on Multidiciplinary Engineering and Applied Sciences. Accepted for publication in IEEE Conference Proceedings (Scopus Indexed)

(3) Odusote, J. K., Adeleke, A. A., Ikubanni, P. P., Asafa, T. B., Kolawole, S. K., Opatola, E. A., ... & **Orhadahwe, T. A**. (2023). Silver–Gold Synthesized Nanoparticle as Corrosion Inhibitor on Mild Steel in 1.0 M HCl Environment. *Chemistry Africa*, 1-14.

(4) Akinwonmi, A. S., Adeaga, O. A., & **Orhadahwe, T. A**. (2023, April). Investigation of Diesel Blends with Edible Vegetable Oils for Combustion in Swirl Burners. In *2023 International Conference on Science, Engineering and Business for Sustainable Development Goals (SEB-SDG)* (Vol. 1, pp. 1-9). IEEE.

(5) Adeleke, A.A., Makanjuola, O., Anyim, I.K., Ikubanni, P.P, Balogun, A.A., **Orhadahwe, T.A**., Omoniyi, P., Olabisi, A.S., Akinlabi, E. (2022). Recent Development in Casting Technology: A Pragmatic Review. *Journal of Composite and Advanced Materials,* 32(2), 91-102. Scopus Indexed

(6) Adeleke, A.A., Ikubanni, P.P., **Orhadahwe, T.A**., Chiebuka, T.C. (2022). Optimization of densification parameters for lean grade subbituminous coal. Accepted for publication in Petroleum and Coal Journal. Scopus Indexed

(7) Adeleke, A.A., Ikubanni, P.P., **Orhadahwe, T.A**., Akano, J.M., Agboola, O.O., Adegoke, S.O., Balogun, A.O., Ibikunle, R.O. (2021). Sustainability of the Biomass Multifaceted Usage: A Review. *Heliyon,* 7(9), 1-75. <https://doi.org/10.1016/j.heliyon.2021.e08025>. Scopus Indexed

(8) Adeleke, A.A., Ikubanni, P.P., Odusote, J.K., **Orhadahwe, T.A**., Lasode, O.A. Adegoke S.O. and Adesina O.S. (2021): Non-isothermal kinetic parametric evaluation of *Tectona grandis* using model-fitting methods, *Materials Today: Proceedings*, 44(1), 2874-2878 <https://doi.org/10.1016/j.matpr.2020.12.1171>. Scopus Indexed

(9) Singh H., Adeleke, A.A. Singh C., Ikubanni, P.P., **Orhadahwe T.A**. and Agboola, O.O. (2021): Agglomeration of Pet coke and Rice Straw as Mixed Fuel for Power Generation. *Petroleum and Coal,* 65(2), 356-365.

(10) Adeleke, A.A., Odusote, J.K., Ikubanni, P.P., **Orhadahwe T.A.,** Lasode O.A., Ammasi A.and Kumar K. (2021): Ash Analyses of Bio-Coal Briquettes Produced using Blended Binder, *Scientific Report, Nature*, 547(11), <https://doi.org/10.1038/s41598-020-79510-9>. Scopus Indexed

(11)**T. A. Orhadahwe**, O. O. Ajide, A. A. Adeleke & P. P. Ikubanni (2020) A review on primary synthesis and secondary treatment of aluminium matrix composites, *Arab Journal of Basic and Applied Sciences*, 27:1, 389-405, DOI: 10.1080/25765299.2020.1830529, Scopus Indexed

(12) Ohijeagbon, I.O., Adeleke, A.A**.,** Ikubanni P.P., **Orhadahwe, T.A**., Adebayo, G.E., Adekunle A.S., Omotosho A.O (2021): Development of Methodology for Characterization of Surface Roughness of Solid Metallic Surfaces using Oil Slippage Method, *Latvian Journal of Physics and Technical Sciences,* 58(4), 43-54. (Scopus Indexed)

(13) **Orhadahwe, T.A**., Adeleke, A.A., Ikubanni, P.P. and Agboola, O.O. (2020); Evaluating the Effectiveness of Maintenance Practice: Case Study of a University Power Generating Plant Unit, *Engineering and Applied Science Research*, 47(2), 170-174, <https://ph01.tci-thaijo.org/index.php/easr/article/view/215159> Scopus Indexed

(14) **Orhadahwe, T.A**., Adeleke, A.A.**,** Aweda, J.A., Ikubanni, P.P. and Odusote, J.K. (2020): Microstructural Image Analyses of Mild Carbon Steel Subjected to Rapid Cyclic Heat Treatment, Accepted for publication in *Journal of Chemical Technology and Metallurgy*. 55(1), 198-208, <http://dl.uctm.edu/journal/web/j2020-1>-[26\_19-31\_p\_198-209.pdf](https://dl.uctm.edu/journal/node/j2019-2/4_18-10_p274-285.pdf), (Scopus Indexed)

(15) Adeleke, A.A.,Ikubanni P.P., **Orhadahwe, T.A**., Aweda J.O., Odusote J.K. and Agboola O.O. (2019); Microstructural assessment of AISI 1021 Steel under rapid cyclic heat treatment, *Results in Engineering, Elsevier Publisher, 4, 100044,* [*http://doi.org/10.1016/j.rineng.2019.100044*](http://doi.org/10.1016/j.rineng.2019.100044)(Scopus indexed).

(16) Aweda, J.O., **Orhadahwe, T.A**. and Ohijeagbon, I.O. (2018): Rapid Cyclic Heating of Mild Steel and its Effects on Microstructure and Mechanical Properties, *IOP Conference Series: Materials Science and Engineering*, 413 <https://iopscience.iop.org/article/10.1088/1757-899X/413/1/012016> (Scopus Indexed)

(17) Adeleke, A.A., Ikubanni, P.P., Odusote, J.K., **Orhadahwe, T.A**., Lasode, O.A. Adegoke S.O. and Adesina O.S. (2021): Evaluation of non-isothermal kinetic parameters for pyrolysis of *Teak wood* using model-fitting techniques, *Trends in Sciences*, 18(24): 1432 Scopus Indexed

**b. Articles in Press**

(1) Adeleke, A.A., Lawal, M.S., Ikubanni P.P., Anosike-Francis, E., Lawal I.A., **Orhadahwe, T.A.,** Olosho, A. (2023). Recent trends in magnesium metal composites: a review. The 2nd International Conference on Multidiciplinary Engineering and Applied Sciences

(2) **Orhadahwe T.A.,** Ajide, O.E.E., Adeleke, A.A. (2023). Investigation of date palm seed as a reinforcement in aluminium matrix composites. The 2nd International Conference on Multidiciplinary Engineering and Applied Sciences

(3) Adeleke, A.A., Ikubanni, P.P., Lawal, M.S., Ogedengbe, T., Anosike-Francis, E., SULEIMAN, S., Daniel, F.C., **Orhadahwe, T.A.**, (2023). Advancements in titanium for biomedical applications: a review. The 2nd International Conference on Multidiciplinary Engineering and Applied Sciences

(4)  Peter Ikubanni, Esther Anosike-Francis, Adekunle Adeleke, Adebayo Olosho, Muhammad Attah Abdullahi, Ahmed Lawan, **Thomas Orhadahwe**, Ammasi Ayyandurai and Adeiza Samuel (2023). Reinforcement from biomass ash for metal matrix development: a review. The 2nd International Conference on Multidiciplinary Engineering and Applied Sciences

(5) Obu S.C.V., Adeleke, A.A., Ikubanni, P.P., **Orhadahwe, T.A.**, Dike, C.P., Samuel, A.A., Omiogbemi, I.M.B., Odusote, J.K. (2023). Production of Charcoal Briquette from Carbonized Coconut Shell and Sawdust. Submitted to Petroleum and Coal (Scopus Indexed).

(6) Ogundola A.C., **Orhadahwe, T.A**., Ojetoye, A.O., Emmanuel, C.O, Ogundola O.C. (2023). Development of a computational model for the estimation of biogas production from putrescible wastes. Submitted to Engineering and Applied Science Research (EASR) (Scopus Indexed)

(7) Saidu, N.S., Aladodo, M.A., Ajimotokan, HA, Adeleke, A.A., Orhadahwe, T.A., Ikubanni, P.P., Odusote, J.K., Lawal, M.S. (2023). Effects of densification characteristics and torrefaction on quality and thermal properties of pelletised corncob residues. Submitted to Reports in Mechanical Engineering (Scopus Indexed)

**c. Other Author’s Manuscript Reviewed as a Reviewer**

1. Dry sliding wear behavior of mica, fly ash and red mud particles reinforced Al7075 alloy hybrid metal matrix composites (2021). *Indian Journal of Science and Technology Research*

2. Impact analysis of hardness behavior of designed aluminium ceramic composites prepared through stir casting (2023). *Indian Journal of Science and Technology Research*.

3. Simulation technology in renewable energy generation: A review (2023). The 2nd International Conference on Multidiciplinary Engineering and Applied Sciences

4. Renewable energy from various biomass. The 2nd International Conference on Multidiciplinary Engineering and Applied Sciences

**xiii Professional Accomplishments, Conferences/Seminars and Workshops attended with Dates**

**a. Conferences/Workshops/Trainings Attended**

* 2nd International Conference on Multidisciplinary Engineering and Applied Sciences, held at Nile University of Nigeria, 1st – 3rd November, 2023
* 1st Landmark University IEEE International Conference on Sustainable Development Goals (SDGs), 5th -7th April, 2023, at Landmark University, Omu-Aran, Kwara State
* 4 Day On-Line Solar PV Design & Installation Training by Canadian Solar Institute 20th -23rd March 2023.
* African Fellowship for Young Energy Leaders Cohort 2, 2022 hosted by RETTI Virtual University; October 2022 – March 2023.
* 2022 Power Global Community Summit organized by NASA Power, 21-22 September, online from USA
* The 2nd International Conference on Engineering for Sustainable World (ICESW) 9 -13 July, 2018, Mechanical Engineering Department, Covenant University, Ota, Nigeria.
* 55th National Conference of the Mathematics Association of Nigeria, 21-26 August, 2018, National Mathematical Centre, Abuja, Nigeria.

**b. Professional Accomplishments**

* Fellow, African Fellowship for Young Energy Leaders (AFYEL) 2023
* ICDL Certified Trainer’s Certification 2021
* Project Management 35 hours PDU Training 2020
* International Computer Drivers’ License (ICDL), base, intermediate and advanced modules. 2020
* Basic Manpower Development Certificate, Centre for Management Development 2020
* Advanced Manpower Development Certificate, Centre for Management Development 2020
* Business Analytics Complete Course 2020

**c. Service to the community**

* Zonal Evangelism Coordinator, RCCG Living Faith Zone, Oyo 2023 - date
* Member Red Cross Society of Nigeria 2013 - date
* President, MDGs/NYSC CDS Group. 2013-2014
* Zonal Coordinator, NCCF 2013-2014
* General Secretary, CCCSP UNIBEN 2010-2012
* Editor-in-Chief, Spectacles Magazine, UNIBEN 2011-2012
* Member, NUESA Parliament UNIBEN 2010

**xii Awards/Scholarship**

* Stardust Solar Award given to the best two fellows at AFYEL 2023
* Excellent Leadership Award presented by AFYEL 2023
* Stardust solar PV NABCEB certification Scholarship 2023
* PTDF In-Country Ph.D. Scholarship Award 2023
* Gorilla award by McGeorge Consulting Ltd. 2022
* FUIEE (Fun Urgent Informative Energetic and Essential) Award

presented by McGeorge Consulting Ltd. 2022

* Above and Beyond the Call Award by McGeorge Consulting Ltd. 2022
* Golden Pencil Award presented by McGeorge Consulting Ltd. 2022
* Heritage Award presented by McGeorge Consulting Ltd. 2022
* Big Bean Award presented by McGeorge Consulting Ltd. 2022
* Thinker Award presented by McGeorge Consulting Ltd. 2022
* Achievement Award presented by McGeorge Consulting Ltd 2022
* Staff of the Year Award presented by the management Emmanuel

Baptist College, Ilorin 2019

* Personality of the Year by Corp Members in Gbako LGA, Niger State 2014
* Leadership Award by Corp Members in Gbako LGA, Niger State 2014
* Overall Best Student Award by NNPC at Ugborikoko Sec Sch 2001

**xiii Extra-Curricular Activities**

* Reading, Writing, playing football, public speaking, playing Scrabble and video games

**xiv Software Skills/Competencies**

* AutoCAD - Expert level
* Solidworks - Intermediate
* ANSYS - Intermediate
* Anylogic - Intermediate
* All Microsoft Office Packages – Expert level
* Excellent interpersonal skills
* Team player
* Ability to work with little or no supervision
* Excellent communication skills (written and verbal)

**xv Name and Address of Three Referees**

1. **M.O. Petinrin (Ph.D.)**

Senior Lecturer

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1. **J.O Aweda**

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Signature/Date