

CURRICULUM VITAE

GENERAL INFORMATION:

NAME: OLODU, Dickson David
Date of Birth: 22nd July, 1980
Place of Birth: Benin City, Edo State, Nigeria
Nationality: Nigerian
State of Origin: Delta
Local Government Area: Ukwuani
Home Address: 5, Palmer Street, Off Saint Saviour Road, Off Upper-Sakponba Road, Benin City, Edo State, Nigeria.
Postal Address: Department of Mechanical Engineering, Faculty of Engineering, Benson Idahosa University.
Phone Number: 08065325363
E-Mail Address: dolodu@biu.edu.ng
Sex: Male
Marital Status: Married
Number of Children: Four children (4): Age; 13yrs, 10yrs, 8yrs, and 5yrs.
Present Position: Senior Lecturer
Department: Mechanical Engineering
Proposed Position: Associate Professor

EDUCATIONAL QUALIFICATIONS WITH DATE

PhD in Manufacturing Engineering 2017
(University of Benin, Benin City)

M.Eng in Manufacturing Engineering 2013
(University of Benin, Benin City)

B.Tech. Electro-Mechanical 2005
Second Class Honours (Upper Division)
(Nnamdi Azikiwa University, Awka)

Senior School Certificate (SSCE) 1999
(Umutu Mixed Secondary School, Delta State)

First School Leaving Certificate 1993
(Igili Primary School, Umutu, Ukwuani L.G.A., Delta State)

TEACHING AND PROFESSIONAL EXPERIENCE

❖ Benson Idahosa University (BIU), Benin City: (30th September 2021 -Till Date)
Current Position: Senior Lecturer

Area of Specialization: Engineering Design and Manufacturing

❖ **Benson Idahosa University (BIU), Benin City** (27th February 2019-29th Sept., 2021)
Position Held: Lecturer I

Courses Taught:

- MEE 510 Internal Combustion Engine
- MEE 513 Engineering Maintenance and Reliability I
- MEE 521 Energy Technology III
- MEE 524 Automobile Engineering
- MEE 512 Production Technology II
- MEE 417 control Systems Engineering
- MEE 413 Strength of Materials II
- MEE 410 Mass and Heat Transfer
- MEE 411 Engineering Design
- MEE 311 Mechanics of Machines I
- MEE 315 Manufacturing Technology
- GEN 214 Fluid mechanics
- GEN 217 Strength of Materials I
- GEN 227 Materials Science
- GEN 223 Workshop Technology II
- GEN 215 Engineering Mechanics I
- GEN 212 Engineering Drawing I
- GEN 212 Engineering Drawing II
- GEN 225 Engineering Mechanics II
- MEE 121 Introduction to Mechanical Engineering
- GEN 121 Engineering Graphics and Solid Modelling etc.

❖ **Institute of Science and Management Studies, Benin City** (2014-2018)

Position: Lecturer

Courses Taught:

- Quality Control
- Fluid Mechanics
- Control Theory and
- Thermodynamics

❖ **Ojomoh Education Centre, Benin City, Edo State** (2010-2016)

Position: Teacher

Subject Taught: Physics and Further Mathematics

COMPUTER KNOWLEDGE

Microsoft Word, Microsoft Excel, Power Point, Corel Draw, SPSS, Paint, Python, Minitab, Artificial Intelligence and other packages

PROFESSIONAL CERTIFICATION

- Corporate Member the Nigerian Society of Engineers (MNSE), Reg No: 47289
- Registered Mechanical Engineer, Member Council for the Regulation of Engineering in Nigeria (COREN), Reg. No: R47172.
- Registered member, The Society of Petroleum Engineers, Reg No. 5680054
- International Project Management. Certified Project Manager (CPM)
- Administrative Staff College of Nigeria (ASCON)

- Member, International Association of Engineers, Reg No: 226848
- Member, Society of Petroleum Engineers, Reg No: 5680054

ADMINISTRATIVE POSITION

- Acting Head of Department (Mechanical Engineering) (4th October, 2021 till Date)
- Acting Dean Faculty of Engineering (4th July to 7th July 2023)
- Acting Dean Faculty of Engineering (15th August to 2nd September, 2022)
- Congregation Representative in Senate for Faculty of Engineering (2019 till Date)
- Committee member, Benson Idahosa University culture shift (2022 till date)
- Course adviser for 400 level (2021/2022 academic session)
- Course adviser for 300 level (2020/2021 academic session)
- Course adviser for 200 level (2019/2020 academic session)
- Member Benson Idahosa University research committee representing Faculty of Engineering (2019 till Date)

AWARD

- [1] Benson Idahosa University research grant award (2023).
- [2] Benson Idahosa University award for the most cited staff in Faculty of Engineering (2022).
- [3] Corporate award presented by The Nigerian Society of Engineers, Benin Branch. (2021)
- [4] Research Productivity award in Design and Manufacturing, Benson Idahosa University. (2020).

WORKSHOP PARTICIPATION/ TRAINING

- Thirteen (13) weeks training on 'Artificial Intelligence and The Delivery of Quality Higher Education': A Practical Course (January to April 27th, 2024)
- Two (2) days grantmanship workshop at Benson Idahosa University(2024)
- Advanced digital empowerment programme for tertiary institutions. Data analysis using SPSS and Ms Power BI, Digital Bridge Institute; International Centre for Information and Communications Technology Studies, Nigeria. (21st to 25th August, 2023)
- Workshop on Effective Course Advising, at Benson Idahosa University (October, 2023)

RESEARCH ARTICLES/ PUBLICATIONS

INTERNATIONAL JOURNALS:

- [1] **Olodu, D.D.** and Osarenmwinda, J.O. (2018). Empirical Modelling of Injection Moulded High Density Polyethylene-Grass Composite. *American Journal of Engineering Research (AJER)*. India, 7(12); 245-250. <https://www.ajer.org/volume7issu12.html>
- [2] **Olodu, D.D.** and Osarenmwinda, J.O. (2018). Modelling of Injection Moulded Polypropylene-Grass Composite. *International Journal of Research in Advanced Engineering and Technology, USA*, 4 (3); 37-40. <https://www.allengineeringjournal.in/archives/2018/vol4/issue3>
- [3] **Olodu D.D** & Aliyegbenoma C.O. (2020). Split-split plot Analysis of the Effects of Process Parameters in the Production of Polyvinyl Chloride-Grass Composite. *International Journal of Engineering and Innovative Research. Turkey* 2 (3); 211-223. <https://doi.org/10.47933/ijeir.755279>

- [4] **Olodu D.D** and Ogbemudia A. (2020). Analysis of the Effects of Process Parameters on the Mechanical Properties of Developed Unalloyed Aluminium Sheets. *International Journal of Engineering Science and Application*. 4(3); 109-118. <https://dergipark.org.tr/en/pub/ijesa/issue/56937/787810>
- [5] **Olodu D.D** and Aliyegbenoma C.O. (2020). Investigation of Different Developed Iron in Iron Production Companies. *International Journal of Engineering Science and Application*, 4(4); pp.151-156. <https://dergipark.org.tr/en/pub/ijesa/issue/58838/789252>
- [6] Osaretin M.O and **Olodu D.D**. (2021). Stress Mechanics of Reinforced Polyester Composites. *International Journal of Engineering and Innovative Research*. 3 (1); pp.39-54. <https://doi.org/10.47933/ijeir.772055>
- [7] **Olodu D.D**. (2021). Modelling and Validation of the Production Parameters of Unalloyed Aluminium Sheets. *Gazi University Journal of Science Part A: Engineering and Innovation, Turkey*. 8(1): pp.94-108. <https://dergipark.org.tr/en/pub/gujasa/issue/60638/814376>
- [8] **Olodu D.D**. (2021). Failure Analysis of Hybrid Glass Reinforced Composites in Polymeric Industries. *Gazi University Journal of Science Part A: Engineering and Innovation*, 8(1): 122-134. <https://dergipark.org.tr/en/pub/gujasa/issue/60638/825828>
- [9] **Olodu, D.D**. and Ihenyen, O.I. (2021). Fibre Volume Fraction and Impact Strength Analysis of Reinforced Polyester Composite. *European Mechanical Science*, 5(1): pp.80-85. <https://doi.org/10.26701/ems.850970>
- [10] **Olodu D.D** and Aliyegbenoma C.O. (2021). Investigation of The Stress Intensity Factors of a Reinforced Polymeric Composite at Different Fracture Modes. *International Journal of Engineering Science and Application*, 5(1); 7-14. <https://dergipark.org.tr/tr/pub/ijesa/issue/61047/823011>
- [11] **Olodu D.D** and Okagbare, G.O. (2021). Data Analysis of a Reinforced Polymeric Composite Subjected to Impact Load. *International Global Invention Scientific Journal*, 2(2): 1-10.
- [12] **Olodu D.D** and Okagbare, G.O. (2021). Modelling and Experimental Investigation of Copper-Zinc Alloy Using Split-Split Plot Design. *International Journal of Engineering and Innovative Research*, 3(3): 175-186. <https://doi.org/10.47933/ijeir.905756>
- [13] Ozakpolor M, Aliyegbenoma C.O. and **Olodu D.D** (2021). Prediction of Cutting Temperature in Carbide Cutting Tool using Finite Element Method. *International Advanced Researches and Engineering Journal*, 5(3): 398-404. <https://doi.org/10.35860/iarej.859488>
- [14] **Olodu D.D** and KOKHIA Patience Sherifat. (2022). Design and Construction of an Automated and Manual New-Fangled Fruit Juice Extractor. *International Journal of Engineering and Innovative Research*. 4 (1); 10-22. <https://doi.org/10.47933/ijeir.1013688>
- [15] Aghawegbehe KINGSLEY and **Olodu D.D**. (2022). Design and Construction of a Wood-Based Modified Yam Pounder Machine. *International Journal of Energy Application and Technologies*. 9 (1); 22-30. <https://doi.org/10.31593/ijeat.1045514>

[16] **Olodu, D.D.**; Abraham, M; Jesuorobo, J; Akiakem, O.O. (2023). The Design and Construction of a Locally Sourced Electric Powered Stair Climbing Trolley, *Black Sea Journal of Engineering and Science*, 6(1):25-31. <https://doi.org/10.34248/bsengineering.1187210>

[17] **Olodu, D.D.** and Erameh, A.A. (2023). Waste to Energy: Review on the Development of Land Fill Gas for Power Generation in Sub-Saharan Africa. *Black Sea Journal of Engineering and Science*, 6(3): 296-307. <https://doi.org/10.34248/bsengineering.1195247>

[18] **Olodu, D.D.**, and Erameh, A., (2023). Optimization of the Effects of Process Parameters on the Tensile Strength of Developed Aluminium Roofing Sheets Using Taguchi Method, *The International Journal of Materials and Engineering Technology (TIJMET)*, 6(2): 31-40. <https://dergipark.org.tr/en/pub/tijmet/issue/78746/1293627>

[19] **Olodu, D.D.**, and Erameh, A., (2023). Optimization Using Taguchi Method To Investigate The Effects Of Process Parameters On The Hardness Of Developed Aluminium Roofing Sheets, *Black Sea Journal of Engineering and Science*, 6(4): 347-355. <https://doi.org/10.34248/bsengineering.1273509>

[20] **Olodu, D.D.**, and Erameh, A., (2024). Improving Wood Mechanical Properties using Guinea Grass, Wood Sawdust, Crack Filler and Wood Adhesive, *Cukurova University Journal of Natural and Applied Sciences*, Turkey, 3(1): 1-10. <https://dergipark.org.tr/en/pub/cunas/issue/84564/1295112>

NATIONAL JOURNALS:

[21] Osarenmwinda, J.O. and **Olodu, D.D.** (2015). Barrel Temperature Effects on the Mechanical Properties of Injection Moulded Plastic Products. *Nigeria Journal of Technology*. 34 (2); 292-296. <http://dx.doi.org/10.4314/njt.v34i2.12>

[22] Osarenmwinda, J.O and **Olodu, D.D.** (2018). Optimization of Injection Moulding Process Parameters in the Molding of High-Density Polyethylene (HDPE). *Journal of Applied Sciences and Environmental Management*. 22 (2); 203-206. <https://dx.doi.org/10.4314/jasem.v22i2.8>

[23] **Olodu, D.D.** Optimization and Analysis of Cutting Tool Geometrical Parameters using Taguchi Method. *Journal of Applied Sciences and Environmental management*. 22(3); 346-355. <https://dx.doi.org/10.4314/jasem.v22i3.9>

[24] **Olodu, D.D.** and Osarenmwinda, J.O. (2018). Effects of Process Parameters in the Production of High Density Polyethylene-Grass Composite. *Journal of Applied Sciences and Environmental Management*. 22 (9); 1479-1483. <https://dx.doi.org/10.4314/jasem.v22i9.20>

[25] **Olodu D.D** and Osarenmwinda J.O. (2019). Investigation of Polypropylene-Grass Composite Using Split-Split Plot Experimental Design. *Advances in Engineering Design Technology*. 1(1); 40-48. <https://journals.nipes.org/index.php/aedt/article/view/503>

[26] **Olodu, D.D.** and Osarenmwinda, J.O. (2019). Empirical Modelling of Developed Polyvinyl Chloride-Grass Composite. *Journal of Energy Technology and Environment*. 1 (1); 29-37. <https://journals.nipes.org/index.php/jete/article/view/266>

- [27] **Olodu, D.D.** and Osarenmwinda, J.O. (2019). Production of Polyvinyl Chloride-Grass Composite using Injection moulding Process. *Journal Science and Technology Research*. 1 (1); 37-44. <https://journals.nipes.org/index.php/njstr/article/view/20>
- [28] Aliyegbenoma, C.O; Apkobi, J.A; **Olodu D.D.** (2019). Modelling and Production of Injection Moulded Polyvinylchloride-Sawdust Composite. *Journal of Applied Sciences and Environmental Management*. 23 (12); 2159-2164. <https://dx.doi.org/10.4314/jasem.v23i12.12>
- [29] **Olodu D.D** and Aliyegbenoma C.O. (2020). Investigation of Low Density Polyethylene Polymeric Composite Using Split-Split Plot Experimental Designs. *Journal of Science and Technology Research*. 2(3); 208–217.<https://journals.nipes.org/index.php/njstr/article/view/143>
- [30] Okpoko, J.S and **Olodu, D.D.** (2021). Development of Models for the Prediction of the Level of Concentration of Gas Pollutants in Utorogu Gas Plant in Delta State, Nigeria. *Journal of Energy Technology and Environment*, 3(3); 144-155. <https://journals.nipes.org/index.php/jete/article/view/438>
- [31] Eliagwu V.O.; **Olodu D.D.** and Okagbare G.O. (2022). Investigation of the Safety Conditions of Voltage in High Voltage Network Poles: A Case Study of Benin City, Nigeria. *Journal of Energy Technology and Environment*, Vol. 4(2); 47-56. ISSN-2682-583x.<https://journals.nipes.org/index.php/jete/article/view/510>
- [32] **Olodu D.D.**; Okagbare G.O. and Ikri S.O. (2022). A Review on the Industrial Applications and Properties of Fiber-Reinforced and Other Polymeric Composites. *Journal of Science and Technology Research*, 4(2); pp.144-162, pISSN-2682-5821, eISSN-2682-5821. <https://journals.nipes.org/index.php/njstr/article/view/354>
- [33] **Olodu, D.D.**, Sylvester, F.B, Ilesanmi, A.D and Oloruntoba, S.O. (2023). Design and Fabrication of an Automated Locally Made Soap Extruder, *Uniport Journal of Engineering and Scientific Research (UJESR)*, Uniport, 8(1); 42-55. <https://www.ujesr.org/index.php/archives/volume-8-issue-1>
- [34] **Olodu, D.D** and Okpoko, J.S. (2023). Mechanical Properties of Alloys and Thermoplastic Composites Derived from Non-Biodegradable Municipal Solid Waste, *Uniport Journal of Engineering and Scientific Research (UJESR)*, Uniport, 8(1); 61-74. <https://www.ujesr.org/index.php/archives/volume-8-issue-1>
- LOCAL JOURNALS:**
- [35] **Olodu, D.D.** and Osarenmwinda, J.O. (2018) Effect of Barrel Temperature on the Mechanical Properties of Injection Moulded Polypropylene-Grass Composite. *Nigerian Research Journal of Engineering and Environmental Sciences, Uniben*, 3(1); 163-169.
- [36] **Olodu, D.D.** and Ihenyen, O.I. (2018). Optimization of the Cutting Process Parameters of Ti-6Al-4V Alloy by Using Hybrid Approach, *Nigeria Research Journal of Engineering and Environmental Sciences*. Uniben, 3 (2); pp. 763-771. <http://rjees.com/abstract/optimization-of-the-cutting-process-parameters-of-ti-6al-4v-alloy-using-hybrid-approach>

[37] **Olodu, D.D.** and Ihenyen, O.I. (2021). Investigation of the Fracture Mechanism of Reinforced Polyester Composite when subjected to Suddenly Applied Force. *Journal of Engineering for Development, Uniben*, vol. 13(1), 26-37. <https://jedev.com.ng/volume-13/>

[38] **Olodu, D.D.**, Oweh, A., Sam-Dike, O.I, Adakpo, E.E, and Worluh, P.O. (2023). Design And Fabrication of Locally made Automated Soap Mixer, *Journal of Engineering for Development, Uniben*, Vol. 15(4); 53-66. <https://jedev.com.ng/volume-15/>

[39] **Olodu, D.D.**, Ojarigho, E.V. (2023). Investigation of the Effects of Flow Rate on Velocity and Pressure Head using Venturi Flow Meter, *Nigerian Journal of Engineering Science Research (NIJESR)*, Igbinedion University, 6 (4); 33-47. <https://nijesr.iuokada.edu.ng/volume-6-issues-4/>

CONFERENCE PAPER:

[40] Erameh, A.A.; **Olodu, D.D.**, and Orhorhoro E.K. (2021). Modelling and Optimization of Material Removal Rate and Tool Wear Rate in a Straight Turning Operation. NIPES Conference Proceedings. *The 1st International Conference of the Nigerian Institution of Professional Engineers and Scientists*. Book of Proceedings 2021, Pp.1-9

TECHNICAL REPORT:

[41] **Olodu D.D.** Design and Development of the Palm Kernel Oil Expeller (PKO) Machine. Technical Report Submitted to the Nigerian Society of Engineers, April 2018.

Research Article's Online Links:

i. ResearchGate Link: <https://www.researchgate.net/profile/Dickson-David-Olodu/research>

ii. Google Scholar Link: <https://scholar.google.com/citations?authuser=1&user=V-AqSPsAAAAJ#>

iii. ORCID Link: <https://orcid.org/0000-0003-3383-2543>

iv. Academia: <https://independent.academia.edu/DicksonDavidOlodu>

REFEREES

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Edo State.

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Benin City, Edo State.

Engr. Dr. Osagie Ihenyen
Department of Production Engineering
Faculty of Engineering, University of Benin, Benin City,
Edo State.



Signature

Date