CURRICULUM VITAE

01. PERSONAL

(i) Name in Full: ALAYAKI Funmilayo Modupe

(ii) Date of Birth: 13th April, 1972(iii) Place of Birth: Lagos, Nigeria

(iv)Age:49 years(v)Sex:Female(vi)Marital Status:Married(vii)Nationality:Nigerian

(viii) Town and State of Origin: Irawo, Oyo State

(ix) Contact Address: Department of Civil Engineering, College of

Engineering, Federal University of Agriculture, P. M. B. 2240, Abeokuta, Ogun State, Nigeria

(x) Phone Number: +234 8056511993

(xi) E-mail Address: <u>alayakifm@funaab.edu.ng</u>

(xii) Present Post and Salary: Senior Lecturer (CONUASS 5 Step)

02. EDUCATIONAL BACKGROUND

(i) Educational Institutions Attended with Dates:

(a)	University of Cambridge, United Kingdom	2011 - 2017
(b)	University of Lagos, Nigeria	2000 - 2002
(c)	University of Lagos, Nigeria	1994 - 1998
(d)	Federal Polytechnic Ilaro, Nigeria	1990 - 1992
(e)	Wahab Folawiyo High School, Ikoyi, Lagos, Nigeria	1984 - 1989

(ii) Academic and Professional Qualifications with Dates

(a)	Ph.D. Civil Engineering (Geotechnical & Environmental Engineering)	2017
(b)	M.Sc. Civil Engineering (Highway and Traffic)	2002
(c)	B.Sc. Civil Engineering- (Second Class Upper)	1998
(d)	ND Civil Engineering – (Distinction)	1992
(e)	West African School Certificate	1989
(f)	Registered Engineer by COREN (R. 19916)	2011
(g)	Corporate Member, Nigerian Society of Engineers (21478)	2009

(iii) Prizes, Awards and Scholarships, National and International

(a) Tertiary Education Trust Fund (TETFUND) - National Research Fund (NRF) 2019 award for 'Innovative Geotechnical Solutions to Infrastructure Failures in Nigeria: Case Study of Lagos and River States'.

Designation: Research team member 2020 - date

(b) Tertiary Education Trust Fund (TETFUND) - Institution Based Research Fund (IBR) 2019-2020 award for 'Investigation of the Use of Selected Nanostructured Agricultural and Industrial Wastes in Soil Stabilisation for Pavement Construction'.

Designation: Principal Investigator 2021 - 2022

	(c)	Tertiary Education Trust Fund (TETFUND) - Institution Based Research Fund (IBR) 2019-2020 award for 'Production of Low-cost Asphalt and Plastic Tiles Using Selected Agricultural Wastes as Aggregates and Nanostructured Ashes as Fillers'.	
		Designation: Co-Principal Investigator	2021 - 2022
	(d)	Cambridge-Africa Alborada Research Fund Award for research on 'Trial road construction in the Niger Delta, Nigeria'	2013 – 2014
	(e)	Scholarship Award for Ph.D. programme at University of Cambri United Kingdom by Schlumberger Foundation for Women in Scienard Engineering	
	(f)	Graduate Teaching Assistant – University of Lagos award	2001
	(g)	Scholarship Award for B.Sc programme by Chief Wahab Iyanda Folawiyo Foundation	1994 – 1998
	(h)	Best OND graduating student – Federal Polytechnic Ilaro	1992
	(i)	Best female student in WASC at Wahab Folawiyo High School	1989
03.		WORK EXPERIENCE	
	(i)	Present appointment	
	(a)	Senior Lecturer Federal University of Agriculture Abeokuta, Nigeria. Jan	2021 - till date
	(b)	Lecturer I, Department of Civil Engineering, Federal University of Agriculture Abeokuta, Nigeria. Oct 2	2017 – Dec 2021
	(c)	Lecturer II, Department of Civil Engineering, Federal University of Agriculture Abeokuta, Nigeria.	2011 – 2017
	(d)	Assistant Lecturer, Department of Civil Engineering, Federal University of Agriculture Abeokuta, Nigeria.	2008 – 2011
	ii.	Undergraduate Student Supervision	

iii. Reviewer

(a) Nigerian Journal of Engineering, Faculty of Engineering, Ahmadu Bello University, Zaria. Oct 2018 - date

25 undergraduate students supervised from 2009 to date. 7 postgraduate students

iv. Professional Experience

from 2015 to date

(a) Project Engineer (Contract staff)

- (b) Project Engineer Guffanti Nigeria Plc. 493/495, Agege Motor Rd., Oshodi, Lagos state. 2004 – 2006
- (c) Project Engineer (Contract staff)
 Remo North LGA, Isara- Remo, Ogun state. Oct Dec 2000
- (d) Site Engineer
 Akey Construction Company, 195 Igbosere Road, Lagos state. 1992 1994

04. SPECIAL ASSIGNMENT/COMMUNITY SERVICES

(i) Vice-Chairman, Association of Professional Women Engineers	
(APWEN) Abeokuta Chapter	August 2021
(ii) Member of Committee on Ogun State Infrastructure Score Card	
of Nigeria Society of Engineers (NSE), Abeokuta Chapter	Feb 18, 2021
(iii) Member 2021 Engineering Week Planing Committee member	
of Nigeria Society of Engineers (NSE), Abeokuta Chapter	Jan 6, 2021
(iv) Member of Task-force on Sustainable Usage of University	
Brick Making Machine, FUNAAB	Jan $6 - 31$, 2020
(v) Examination Officer, Civil Engineering Department, FUNAAB	2019 - 2021
(vi) Examination Officer, Civil Engineering Department, FUNAAB	2017 – till date
(vii) Member of University Library Committee	2016 – till date
(viii) Member of User's Committee on UNAAB Ceremonial	
Road Reconstruction	2010
(ix) Member of College of Engineering Farm Committee	2009
(x) Member of Department of Civil Engineering Welfare Committee	2008 – till date
(xi) Member of College of Engineering Welfare Committee	2008 – till date
(xii) Member of Association of Professional Women Engineers in	
Nigeria (APWEN)	2008 – till date
(xiii) Assistant Pastor in the Redeemed Christian Church of God	2019 - till date
(xiv) Deaconess in the Redeemed Christian Church of God	2008 - 2019
/) = 4 = 4 + = 4 + = ===	
(xv) Sunday School Teacher in RCCG	1999 – till date

05. TRAINING/WORKSHOP/CONFERENCES ATTENDED WITH DATES

- (i) A 3-day Academic Retreat on University Ethics, Pedagogy and Examination Matters. Organised by Federal University of Agriculture, Abeokuta, June 21 23, 2021.
- (ii) Advanced Digital Appreciation Programme for Tertiary Institutions: Data Analysis Using SPSS 23. Organized Digital Bridge Institute and Nigerian Communications Commission in Federal University of Agriculture, Abeokuta, July 9 13, 2018.
- (iii) Capacity Building Workshop on Modern Methods of Teaching and Learning in Higher Education. Federal University of Agriculture, Abeokuta. January 25 26, 2016.
- (iv) Technical meeting on 'The Use of Sand and Laterite in Road Construction', Crown Agents for Overseas Governments and Administrations, Johannesburg,

- South Africa, October 23 24, 2013.
- (v) Workshop on Regional Scientific Writing, Publishing and Oral Communication, at Federal University of Agriculture Abeokuta, Sponsored by DFID, UK and Association of African Universities, June 23 25, 2010.
- (vi) Workshop on Web 2.0, at Federal University of Agriculture Abeokuta. Organized by The Centre for Internationalization and Partnerships (CENIP) in collaboration with Information and Communication Technology Resource Centre (ICTREC). November 1-4, 2010.
- (vii) Workshop on Ethics and Ethos of Teaching in the University, organized by the Federal University of Agriculture Abeokuta, April 9 10, 2008.

06. COMMENDATION

(i) Letter of commendation on the success of COREN accreditation, Civil Engineering Department, FUNAAB, Nigeria (28th July 2008)

07. MEMBERSHIP OF PROFESSIONAL BODIES

(1)	Registered Engineer by COREN (R. 19916)	2011
(ii)	Corporate Member of Nigerian Society of Engineers (21478)	2009
(iii)	Member of Association of Professional Women Engineers in	
	Nigeria (APWEN) - Membership No. 0280	2008

08. RESEARCH INTEREST

Completed

Construction of stabilised trial road sections in Sampou, Bayelsa State: stemmed from PhD research on the 'Characterisation and Binder Stabilisation of Problematic Niger Delta Soils and Field Performance Evaluation in Nigeria'. Sponsored by Cambridge-Africa Alborada Fund (2015).

In-progress

- i. Research team member on 'Innovative Geotechnical Solutions to Infrastructure Failures in Nigeria: Case Study of Lagos and River States'. Sponsored by Tertiary Education Trust Fund (TETFUND) National Research Fund (2019).
- ii. Investigations on the use of agriculture and industrial wastes and the nano-structured variants as binders/enhancers of soils and concrete.
- iii. Investigation of the use of various agro wastes and plastic in the production of pavement tiles.
- iv. Investigation of the use of agro wastes as substitutes of aggregates in asphalt concrete
- v. Investigation of the use of geofoam in soil stabilisation including field performance evaluation.

09. UNIVERSITY EXTENSION ACTIVITY

i. University Calender Review for College of Engineering on-going

10. OTHER ACTIVITIES WITHIN THE UNIVERSITY

i.	Member of Committee on Gender Policy, FUNAAB	August 2021
ii.	Member of COVID-19 Compliance Committee, FUNAAB	Jan 27, 2021
iii.	Member of Committee on Review of Rules and Regulations	
	of the University, FUNAAB	Feb 18, 2020

11. PUBLICATIONS

- i. **Alayaki, F. M.** (2015): Characterisation and Binder Stabilisation of Problematic Niger Delta Soils and Field Performance Evaluation in Nigeria. Unpublished Ph.D. Thesis, submitted to the Department of Engineering, University of Cambridge. United Kingdom, 347pp.
- ii. **Alayaki, F. M.** (2002): Stabilisation of Laterite Soils with Cement, Lime and Terralite for Base Course Application. Unpublished M.Sc. Dissertation, submitted to Department of Civil Engineering, University of Lagos, 120pp.
- iii. **Alayaki, F. M.** (1998): Analysis and Design of Prestressed Concrete Bridge using BS 8110. Unpublished B.Sc. Project, submitted to the Department of Civil Engineering, University of Lagos, 80pp.

Papers in Journals

- 1. **Alayaki, F. M.**, Gbadewole, O. A., and Otubu, S. O. (2020): Investigation of the Influence of Cow Dung Ash as Filler and Polyethylene Terephthalate as Bitumen Replacement in Asphalt Concrete. *LAUTECH Journal of Engineering and Technology*, 14 (1): 98 106. Published by Faculty of Engineering, Ladoke Akintola University of Technology, Nigeria.
- 2. Gbadewole, O. A., Alayaki, F. M., Adekunle, A. A. and Dada, P. O. (2020): Evaluation of Palm Kernel Shell and its Nano-variant as Aggregates in Asphalt Concrete. *Egyptian Journal for Engineering Sciences and Technology*. 32(4): 43 48. Published by Faculty of Engineering, Zagazig University.
- 3. Igba, U. T., Akinyele, J. O., **Alayaki, F. M.**, Kuye, S. I. (2019): Causes of Failure in Concrete Elements Buried in Lagoon Water. *Engineering Failure Analysis*. 102: 425 432. https://doi.org/10.1016/j.engfailanal.2019.04.067. Published by Elsevier.
- 4. Igba, U. T., **Alayaki, F. M.**, Akinyele, J. O., Cosmas, C. A., Olalere, H. A. and Oyebisi, S. O. (2019): Compressive Strength of Concrete with Partial Replacement of Coarse Aggregate with Seashell using Unwashed Sea and River Sand. *Journal of Civil Engineering*, 11 (3): 37 46. ISSN 01897691. Published by Nigerian Institution of Civil Engineers.
- 5. **Alayaki, F. M.**, Al-Tabbaa, A. and Ayotamuno, M. J. (2019): Stabilisation of Niger Delta Fat Clay with Blend of Binders for Subgrade Application (Part 3) Trial Stabilised Road Sections in Sampou, Niger Delta. *LAUTECH Journal of Engineering and Technology*, 13 (1): 45 54. Published by Faculty of Engineering, Ladoke Akintola University of Technology, Nigeria.
- 6. **Alayaki, F. M.**, Al-Tabbaa, A. and Ayotamuno, M. J. (2018): Stabilisation of Niger Delta Fat Clay with Blend of Binders for Subgrade Application (Part 2) Assessment of Durability. *Umudike Journal of Engineering and Technology (UJET)*, 4(2): 113 119. Published by Michael Okpala University of Agriculture, Umudike.

- 7. Sobanke A.O., **Alayaki F.M**, and Ikponmwosa E. (2018): Assessment of the Micro-Structure of Compacted Soils Using Varied Compactive Efforts: A Case Study of Some Selected Areas in Port Harcourt, Nigeria. *LAUTECH Journal of Engineering and Technology*, 11 (1): 32 38. Published by Faculty of Engineering, Ladoke Akintola University of Technology, Nigeria.
- 8. Igba, U. T., Akinyele, J. O., **Alayaki, F. M.**, Adetiloye, A., Oluwatudimu, O. E. and Ehikhuenmen, S. O. (2018): Effects of Lagoon and Fresh Waters on the Compressive and Split Tensile Strength of Grade 40 Concrete. *FULafia Journal of Science and Technology*, 4: 30 34. Published by Faculty of Engineering, Federal University Lafia, Nigeria.
- 9. **Alayaki, F. M.**, Al-Tabbaa, A. and Ayotamuno, M. J. (2017): Use of Drill Cuttings Ash as a Stabilising Agent for some Selected Niger Delta Soils for Road Construction. *J. Nat. Sci. Engr. & Tech.* (ASSET), 16(2): 88-103. Published by Federal University of Agriculture Abeokuta, Nigeria.
- 10. **Alayaki, F. M.,** Al-Tabbaa, A. and Ayotamuno, M. J (2017): Stabilisation of Niger Delta Fat Clay with Blend of Binders for Subgrade Application Part 1. *Nigerian Journal of Technology (NIJOTECH)*, 36(3): 740 -748. Published by Faculty of Engineering, University of Nigeria, Nsukka.
- 11. Adekunle, A. A., Adekunle, I. M., Badejo, A. A., **Alayaki, F. M**. and Olusola, A. O. (2017): Laboratory Scale Bioremediation of Crude Oil Impacted Soil Using Animal Waste Compost. *Technical Journal* 11(2): 45 49. Published by University of North, Croatia.
- 12. **Alayaki, F. M.**, Emeh, C. J. and Ayotamuno, M. J (2014): Effect of Drill Cutting Ash and Saltwater on Niger Delta Soils. *International Journal of Emerging Technology and Engineering* 4 (9): 1 5. Published by National Science Library, New Delhi, India.
- 13. **Alayaki, F. M**. (2012): Water Absorption Properties of Laterite Soils in Road Pavement: A case Study of Ife-Ilesha Highway Southwestern Nigeria. *International Journal of Emerging Technology and Advanced Engineering*, 2 (11): 51 57. Published by National Science Library, New Delhi, India.
- 14. Meshida, E. A., **Alayaki, F. M**. and Akanbi, E. O. (2011): A Comparative Study of Portland Cement, Hydrated Lime and Lateralite as Stabilizing Agents of Quaternary Coastal Plain Sands of North of Lagos Metropolis as Road Construction Material. *Africa Geoscience Review*, 18 (4): 137 142. Published by RockView International, Paris, France.

Conference Proceedings

15. Alayaki, F. M. and Ayotamuno, M. J. (2016): Identification of Self-Stabilisation of Laterite Soils in Predicting Field Performance in Road Construction in some Prominent Nigerian Regions. *Proceedings of International Conference on Sustainable Engineering and Technology (SET)*. Adewumi, J. K., Adekunle, A. A., Olayanju, T. M. A., Ismaila, S. O. and Dairo, O. U. (Eds.). Published by College of Engineering, Federal University of Agriculture, Abeokuta, 225 – 234.

16. **Alayaki, F. M.** and Bajomo, O. S. (2011): Effect of Moisture Variation on Lateritic Soils as Base Course Material in Road Construction: A Case Study of Abeokuta Metropolis. *Proc. of the Environ. Manage. Conf.*, Published by Federal University of Agriculture, Abeokuta, 178 – 184.

Technical Reports

- 17. Manheche, F., Endale, A., Alayaki, F. M., Banda, S., Geddes, R., Leta, N., Netterberg, F., Paige-Green, P., Motswagole, K., Mukura, K., Mike Pinard, M. (2013): Presenters on: (1) Development of Guidelines for the Use of Sands in Road Construction in the SADC Region. Phase 2 Additional Investigations; (2) Verification of Specifications for the Use of Laterite in Road pavements. Phase 1 Literature Survey and Awareness Raising. Submitted to Crown Agents for Overseas Governments and Administrations, St. Nicholas House, St. Nicholas Road, Sutton, Surrey SMI IEL, UK. Published by Africa Community Access Programme (AFCAP).
- 18. Daramola, J. O., Adekunle, M. F., Olaniyi, M. O. and **Alayaki, F. M.** (2010): Diagnostic Survey Report of Ondo State Agricultural Production (2009): UNAAB-IFSERAR, ISBN 978-978-50092-1-7. Published by **Federal University of Agriculture Abeokuta**, **Nigeria.**

Asterisks are those appeared since last promotion

12. MAJOR CONFERENCES ATTENDED

- (i) 3rd International Conference (COLENG 2021) Innovations as a Catalyst for Rapid Economic Growth, Federal University of Agriculture, Abeokuta, May 24 26, 2021.
- (ii) College of Engineering International Conference (COLENG 2018) STEM: A driving force for sustainable development, Federal University of Agriculture, Abeokuta, May 14 17, 2018.
- (iii) College of Engineering International Conference (COLENG 2016) SET: A driving force for sustainable development, Federal University of Agriculture, Abeokuta, March 7-11, 2016.
- (iv) NSE Annual General Meeting and UNESCO African Engineering Week, Uyo, Akwa Ibom State, November 21 25, 2016.

13. EXTRA-CURRICULAR ACTIVITIES

- i. Counselling and Visiting
- ii. Singing

14. REFEREES

Prof. O. S. Awokola Department of Civil Engineering College of Engineering

Federal University of Agriculture Abeokuta, Nigeria.

E-mail: osawokola@yahoo.co.uk Phone No: +234 8037151917

Prof. O. D. Akinyemi Department of Physics College of Physical Sciences
Federal University of Agriculture Abeokuta, Nigeria.
E-mail: akinyemiod@funaab.edu.ng

Phone No: +234 8062937241

Prof Peter Guthrie Engineering Department, University of Cambridge,

United Kingdom, E-mail: pmg51@cam.ac.uk Phone No: + 44 (0) 1223765627

A lay aki	
	07/10/2021
Signature	Date