CURRICULUM VITAE

i.   **Full Name:** YUSUF, Abdulrahman Olalekan

ii. **Contact Address:** Department of Computer Engineering, Faculty of Engineering and Technology, University of Ilorin, Ilorin Kwara State Nigeria

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v.   **Institutions Attended (with dates):**

i.	University of Ilorin, Ilorin (M. Eng.)	2017 – 2021
ii.	Federal University of Technology, Minna (B. Eng.)	2009 – 2015

vi. **Pure Academic Qualifications (with dates):**

i.	Masters of Engineering (M. Eng.) (Distinction)	2021
ii.	Bachelor of Engineering (B. Eng.) (Second class honour (Upper Division))	2015
iii.	Secondary School Certificate Examination (SSCE)	2009
iv.	Primary School Leaving Certificate (PSLC)	2003

vii. **Professional Experience (with dates):**

i.	Research Assistant and Lecturer, University of Ilorin, Nigeria	2021
ii.	Associate Lecturer, University of Ilorin, Nigeria	2019
iii.	Assistant Lecturer, University of Ilorin, Nigeria	2019
iv.	Graduate Assistant, University of Ilorin, Nigeria	2017

viii. **Professional Qualification (Certifications) (with dates):**

i.	Member of Nigeria Society of Engineers (MNSE)	2021
ii.	Council for the Regulation of Engineering in Nigeria (COREN) (R. 49270)	2019
iii.	International Association of Engineers (IAENG) (Reg. No: 204696)	2017
iv.	Huawei Certified Datacom Associate (HCDA)	2016

ix. **List of Publications with Details of Title, Publications, or Journals dates and pages:**

i. **Journal Articles:**

i. Kamil, K.R., **Yusuf, A.O.,** Yakubu, S.A., & Seriki, S.B. (2021). Renewable Energy Resources Hybridization as an Efficient and Cost-Effective Alternative for Electrification. *Nigerian Journal of Technological Development (NJTD), 18(3),* 174 – 183.

ii. Ajiboye, A.T., Opadiji, J.F., **Yusuf, A.O.,** & Popoola, J.O. (2021). Analytical determination of load resistance value for MQ-series gas sensors: MQ-6 as case study. *TELKOMNIKA Telecommunication, Computing, Electronics and Control. 19(2),* 575 – 582.

iii. **Yusuf, A.O.,** Kamil, R.K, Ayinla, S.L., Usman, A.U., & Gbigbadua, H.K. (2020). Design and Implementation of an AC Power Generator using DC Motor. *Journal of Engineering and Applied Sciences (JEAS), 17(2),* 188 – 195.

iv. Ajiboye, A.T., **Yusuf, A.O.,** & Odewole, M.M. (2020). Development of Instrumentation System for a Laboratory Model Food Product Dryer. *FUOYE Journal of Engineering and Technology (FUOYEJET), 5(1)*, 26 – 30.

v. Ajiboye, A.T., **Yusuf, A.O.,** Yusuf, K.O., & Ogunlela, A.O. (2020). Development of Electromagnet for Laboratory Water Treatment Experiments. *FUOYE Journal of Engineering and Technology (FUOYEJET), 5(1)*, 22 – 25.

vi. Ajiboye, A.T., **Yusuf, A.O.,** & Ajayi, A.R. (2019). CHARACTERIZATION AND ANALYSIS OF PROPAGATION TIME DELAY RANGE WITHIN NIGCOMSAT-1R SATELLITE FOOTPRINTS. *Nigerian Journal of Technological Development, 16(3),* 105 – 110.

vii. Ayinla, S.L., Ajiboye, A.T., **Yusuf, A.O.,** Dilibe, C.G., & Ajayi, A.R. (2019). Design and Development of 3-Axes Accelerometer Wireless Sensor Nodes for Pipeline Monitoring. *African Journal of Computing & ICT*, *12*(1), 22 – 27.

viii. Ajiboye, A.T., Ayinla, S.L., & **Yusuf, A.O.** (2018). Effects of PID Controller Position in Control System Loop on Time Domain Performance Parameters. *African Journal of Computing & ICT*, *11*(4), 29 – 36.

ii. **Conference Papers:**

i. Ajiboye, A.T., Abdulkareem, S.A., Adewuyi, O.A., & **Yusuf, A.O.** (2019). Development of an indigenous automobile speed limiter for Nigerian vehicles. *U6CAU, 1(1),* 12 – 22.

ii. **Yusuf, A.O.**, Ayinla, S. L., Usman, A.U., & Gbigbadua, H.K. (2018). Design and Implementation of an A.C Power Generator using D.C Motor. *2018 INTERNATIONAL CONFERENCE PROCEEDINGS: FACULTY OF ENGINEERING, UNIZIK.* (pp. 1014 – 1022). Awka, Nigeria.

iii. Bajeh, A.O., Abdulkadir, A.B., & **Yusuf, A.O.** (2018). Steganography: Increasing the Size of Hidden Messages. *First International Conference on ICT for National Development and its Sustainability*, *UNILORIN.* (pp. 61 – 75). Ilorin, Nigeria.

iii. **Books:**

i. Opadiji, J.F., Ajiboye, A.T., Olatunji, S., Ayinla, S.L., Ajayi, A.R., & **Yusuf, A.O.** (2018). Undergraduate computer engineering laboratory manual (Vol. 3): microprocessor system interfacing; prototyping and packaging; artificial intelligence applications. *Department of Computer Engineering, University of Ilorin, Ilorin Nigeria.*

ii. Opadiji, J.F., Ajiboye, A.T., Olatunji, S., Ayinla, S.L., Ajayi, A.R., & **Yusuf, A.O.** (2017). Undergraduate computer engineering laboratory manual (Vol. 2): measurement & instrumentation; digital electronic circuits; data communication & networks. *Department of Computer Engineering, University of Ilorin, Ilorin Nigeria.*

iv. **Patents:**

i. Ajiboye, A.T., Abdulkareem, S.A., Adewuyi, O.A., **Yusuf, A.O.**, Adedokun, G.A., & Mahmud, H.O. (2019). Development of Second Version of Unilorin Automobile Speed Limiter.

ii. Ajiboye, A.T., Abdulkareem, S.A., Adewuyi, O.A., **Yusuf, A.O.**, Adedokun, G.A., & Mahmud, H.O. (2018). Development of Unilorin Automobile Speed Limiter.

v. **Thesis:**

i. **Yusuf, A.O.,** & Ajiboye, A.T. (2021). Development of cloud-based gas level control system for the hazardous gas environment. *University of Ilorin, Ilorin Kwara State Nigeria*.

ii. **Yusuf, A.O.,** & Usman, A.U. (2014). Design and Implementation of an A.C Power Generator using D.C Motor. *Federal University of Technology, Minna Niger State Nigeria*.

vi. **Workshops attended:**

    i. Telecommunication Power Training on Basic Knowledge of Power Distribution, Battery Introduction and Application, Power 1000 Introduction, Maintenance and Troubleshooting, Power 2000 Training and Mobile Phone Repair Training, held at Lagos State, 2017.

    ii. ICT HCDA TRAINING on Enterprise Network, IP Routing Protocols, Switching Technologies, Huawei Routers, Switches and Firewall Configuration with Mobile App Development, held at Oriental Hotel Victoria Island Lagos State, 2016.

x. **Project Executed with dates:**

i.	Cloud-based Home Automation System	(2022)
ii.	Cloud-based Bridge Monitoring System with Mobile App	(2022)
iii.	Software-based Vibration Data Logger System	(2021)
iv.	Design of Collaborative Control of D.C Motor using Fuzzy-PI control algorithm on MATLAB SIMULINK	(2021)
v.	Highway Traffic Monitoring System using OpenCV Algorithm	(2021)
vi.	Cloud-based Domestic Load Monitoring and Control System	(2021)
vii.	Cloud-based Automobile Tracking and Anti-Theft System	(2021)
viii.	Electronic Automobile Key using Mobile App	(2021)
ix.	Software-based Data Logger for Solar Panel	(2020)
x.	Cloud-based Monitoring and Control of Distribution Transformer	(2019)
xi.	Class Attendance System using Facial Recognition System	(2019)
xii.	Cloud-based Gas Level Control System for Hazardous Gas Environment	(2019)
xiii.	Incubator Control System	(2019)
xiv.	Software-based 8-channel Temperature Data Logger	(2019)
xv.	Second Version of Unilorin Automobile Speed Limiter	(2019)
xvi.	Software-based Data Logger for Drier Control System	(2018)
xvii.	Unilorin Automobile Speed Limiter	(2017)
xviii.	Steganography Software	(2017)
xix.	Instrumentation of Soil Bin with Software-based Data Logger	(2017)
xx.	Automatic Three Phase Change over System	(2016)
xxi.	A.C Power Generator using D.C Motor	(2014)

xi. **Working Experience (General and Specific Experience with dates):**

    i.   University of Ilorin, Ilorin   2017 – Till Date

    ii.   BTECH Computer College   2016 – 2017

    iii.   National Youth Service Corps   2015 – 2016

xii. **Details of administrative experience and service to the Community:**

    i.   100 Level Student Academic Adviser   2022

    ii.   Final Undergraduate Student Academic Adviser   2021

    iii.   RATECH INEC official 2019 Nigerian General Election 2019

    iv.   Development of Second Version of Unilorin Automobile Speed Limiter 2019

    v.   400 Level Student Academic Adviser   2018

    vi.   Development of Unilorin Automobile Speed Limiter   2018

    vii.   SIWES Departmental Coordinator   2018

    viii.   SWEP Departmental Coordinator   2017

xiii. **Teaching:**

    i.   CPE 435: Prototyping and Packaging, Undergraduate module   (2017 – 2021)

    ii.   CPE 471: Microprocessor Interfacing, Undergraduate module   (2019 – 2021)

    iii.   CPE 546: Embedded Systems and Automation, Undergraduate final year module

                        (2018 – 2022)

    iv.   TED 443: Power Generation and Transmission, Undergraduate module (2019 – 2020)

    v.   TED 446: Electrical Drafting and Installation, Undergraduate module (2019 – 2020)

    vi.   TED 345: Electrical Communication, Undergraduate module   (2021 - 2022)

xiv. **Area of Research:** Embedded Systems Design and Automation, Internet of Things (IoT) and Artificial Intelligence (AI), Software Engineering, Real-time Distributed System, Wireless Sensor Network (WSN), Robotics and Computer Vision (CV), Instrumentation and Control Engineering.

xv. **Programming skills:** Python, Embedded C & C++, Visual C#, C, C++, R, MATLAB, JAVA, HTML, CSS, Javascript, MySQL and Visual Basic.

xvi. **Award and Distinction**

i. TETFund Research Award on Development of a resilient water supply infrastructural ICT Model for effective service delivery in Nigeria (Research Assistant)   2021

ii. AI-Leader for Local Value, Carleton University, Ottawa, Canada   2020

iii. University of Ilorin Staff Development Award   2017

iv. University of Ilorin Graduate Assistantship   2017

v. Head of Corpers (HOC) during National Youth Service Corps (NYSC)   2016

vi. Chairman of Information and Communication Technology (ICT) during National Youth Service Corps (NYSC)   2016

xvii. **Extra-Curricular Activities:** Reading, Travelling, Sport and Games (Chess)