

HABEEB YUSUFF

HealthTech student

✉ habeeb.yusuff@etu.unistra.fr

PERSONAL SUMMARY

A Biomedical Engineering graduate and soon-to-be HealthTech Master's holder, I possess a strong foundation in medical technology. Proficient in CAD design, programming, 3D printing, and UI/UX, I have hands-on experience in Medical Imaging, specifically contributing to the design of an MRI phantom for quality assurance. Eager to apply my diverse skill set and innovative mindset to contribute meaningfully to the evolving landscape of HealthTech.

EDUCATION

Université de Strasbourg

Sept. 2023 – Till date

Master 2 - HealthTech

Université de Strasbourg.

Sept. 2022 – Sept. 2023

Master 1 - HealthTech

Relevant Courses: Medical imaging, Image processing, Deep/Machine learning, Modeling and Simulation, Innovation processes in MedTech

University of Ilorin, Ilorin, Kwara state, Nigeria.

Dec. 2015 – Aug. 2021

B.Eng - Biomedical Engineering

Relevant Courses (Grades): Computer applications I & II (A), Computer programming; C++ and python (A), Biomedical Engineering Design (A), Biomechanics(A), Medical Imaging System(A), Principle of Biomedical Engineering Instrumentation(A), Nanomedicine(A), Electronics Circuits I & II (A), Human Physiology(A), Engineering Mathematics (Numerical analysis and Differential Calculus) (A).

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

- **Data Science – IBM, Coursera** **2022**
 - Fundamentals of Data Science, Big Data, Data Mining, Neural Networks, and Deep Learning, Machine Learning, and Regression
- **Learning Python - LinkedIn Learning** **2021**
 - Variables and Expressions, Python functions, Conditional Structures, Loop, Reading and writing files, Object-Oriented programming
- **Project Management Foundations - LinkedIn Learning** **2021**
 - Agile project vs Traditional project, Project management software, Creating a work breakdown structure, Project Schedule
- **The Data Science of Healthcare, Medicine, and Public Health - LinkedIn Learning** **2021**
 - Data Science and Genetics, Data science and Cancer, Data science and Mental health, Predictive modeling in healthcare, Data ethics in healthcare, medicine, and public health
- **Artificial Intelligence Foundations: Thinking Machines - LinkedIn Learning** **2021**
 - Introduction to machine learning, Artificial neural networks, Perceptron, match patterns, Backpropagation, Regression, IoT, Big data

RESEARCH AND INDUSTRIAL EXPERIENCE

Research Intern

Jun. 2023 – Aug. 2023

Icube Lab, Strasbourg, France.

Supervisor: Dr. Jean-Philippe DILLENSEGER

- Design and development of low-cost MRI phantom.

Graduate Engineer**Nov. 2021 – Sept. 2022**

Halomedicals System Limited, FCT, Abuja, Nigeria

- Installation and maintenance of medical equipment.
- Attends seminars and training on medical equipment maintenance best practices.
- Trained the paramedic team of Federal Fire Service Corps on medical equipment handling.
- Introduced a new marketing strategy to increase brand awareness which is expected to also increase sales by 50%.

Undergraduate Research Assistant**Nov. 2019 – Sep. 2021****Project Title:** Design and construction of a self-guiding digital APGAR scoring device.**Supervisor:** Engr. Lydia Jilantikiri

- Assisted Biomedical Engineering Academic staff in research work and design of a medical device.
- Carried out independent research on APGAR scoring system, studied the literature, and presented my findings in form of a report.
- The design revealed a device that can be easily used to access newborn babies for medical fitness through their ACTIVITY, PULSE, GRIMACE, APPEARANCE, and RESPIRATION to decide if immediate resuscitation action is needed.

Achievements:

- Designed and constructed a self-guiding digital APGAR scoring device using Arduino ATmega2560, programmed in C++ Language
Created a database to store mothers' medical conditions during pregnancy and babies' APGAR score after birth for research purposes

Research Assistant; National Biotechnology Development Agency, Abuja**June 2019 - Oct. 2019****Project Title:** Discovery of Natural Compounds that Modulate the Activity of Dipeptidyl-peptidase 4 using **Computer-Aided Drug Discovery (CADD)**.**Supervisor:** Dr. Adekunle Rowaiye

- Assisted a researcher in the medical department, National Biotechnology Development Agency, Abuja in carrying out research on Dipeptidyl-peptidase 4 (DPP-4) Inhibitor as a potential Diabetes medicine using Computer-Aided Drug Discovery (CADD).
- Docked and screened 900+ compounds against DPP-4 molecule for drug efficacy.

Achievements:

- Identification of Lead compounds that can move on to clinical research among the 900+ screened compounds

Student Intern**Aug. 2018 - Oct. 2018**

University of Ilorin Teaching Hospital (UITH), Ilorin, Nigeria

- Installed and maintained medical equipment in the hospital wards
- Maintained oxygen plant, refilled oxygen cylinders, and transferred them to the needed wards

TEACHING EXPERIENCE

Undergraduate Student Tutor: Department of Biomedical Engineering, University of Ilorin**2019 – 2021**

- Thought core Biomedical Engineering courses as a student tutor to assist over 30 students across various levels

Volunteer Teacher: Playfair Memorial College (PMC)**2019**

- Thought Mathematics to Senior Secondary 1 – 3 Students of PMC, Oro-Ago, Kwara State during a community-based service

LEADERSHIP & VOLUNTARY EXPERIENCE

Member, Environmental Protection Service (EPS)**Nov. 2021 – Sept 2022**

National Youth Service Corps (NYSC)

- Sensitization of community members on needs for environmental sanitation and ensuring hygiene environment

Creative Designer (Volunteer)

Dec. 2021 - March 2022

PTC Onshape Sustainable Energy Design Challenge

- Onshape sustainable energy design challenge is a hackathon aimed at training participants on the use of Onshape CAD tool to create a sustainable energy solutions
- I designed infographics and managed social media pages for the hackathon
- Attended meetings and formulated progress roadmaps for the hackathon

Technical Coordinator/Mentor

June 2019 - Aug. 2021

Dareword Students Association (DSA), Ilorin, Nigeria.

- Mentored University of Ilorin freshmen on how to navigate their ways toward academic excellence in the University system.
- Paired over 200 newly admitted students with their various mentors of the same department to mentor the student throughout the session.
- Trained 100 Freshmen virtually on Graphics design and Video creation using mobile phone

HONOURS AND AWARDS

Best Graduating Student: Biomedical Engineering, University of Ilorin, Nigeria

2021

- Awarded and recognized by the University of Ilorin as the best graduating student in the Department of Biomedical Engineering in the 2021 graduating set.

Best Graduating Student: Nigeria Society of Engineers (NSE)

2021

University Scholarship Award: University of Ilorin, Nigeria

2018 - 2019

- Awarded and recognized by the University of Ilorin as the best student in the department for an academic session. This is an award presented annually by the university to the student with the highest CGPA in each level and department.

Award of Academic Excellence: Nigeria Society of Black Engineers (NSE)

2018

PROFESSIONAL AFFILIATIONS

Member, International Society for Telemedicine and e-health (ISfTeH)

2022 – Till date

Member, American Society of Quality (ASQ)

2020 – Till date

Member, National Society of Black Engineers (NSBE)

2017 – Till date

SKILLS

Computer skills: Python, CAD design, Pyrx, Pymol, Figma

Soft skills: Communication, Leadership, Time management, Team Player

LANGUAGES

English: Native speaker, Distinguished levels in Listening, Speaking, Reading, and Writing.

French: A1

REFEREES

Dr. Yahaya Suleiman Abimbola

Ag. Head

Department of Biomedical Engineering

University of Ilorin, Ilorin, Nigeria.

Yahaya.say@unilorin.edu.ng

Engr. Idris Oladele Muniru

Department of Biomedical Engineering

University of Ilorin, Ilorin, Nigeria.

muniru.oi@unilorin.edu.ng