



# TAOFIK AHMED SULEIMAN



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## ABOUT ME

Highly focused, energetic, and enthusiastic first class graduate of Biomedical Engineering with a passionate interest in pursuing a career in research in the field of medical imaging, and computer-aided diagnosis in order to contribute to the drive in addressing poor identification of imaging abnormalities.

## EDUCATION AND TRAINING

### Bachelor of Engineering in Biomedical Engineering

**University of Ilorin** [10/2015 – 08/2021]

**Address:** Ilorin, Kwara (Nigeria): <http://www.unilorin.edu.ng/>

**Final grade:** 4.68 out of 5.0 (First class): Top 1% of over 9000 graduated students in 2021

**Relevant Courses (Grades):** Medical Imaging System (A), Biomedical Instrumentation (A), Computer Programming (A), Computer Applications (A), Engineering Mathematics (A), Electronics Circuits I & II (A), Biological Systems, Control, and Modeling (A), Thermodynamics (A), Electromagnetic Field and Waves (A).

### National Diploma in Science Laboratory Technology

**Kogi State Polytechnic** [12/2013 – 08/2015]

**Address:** Lokoja, Kogi (Nigeria): <https://kogistatepolytechnic.edu.ng/>

**Final grade:** 3.35 out of 4.0 (Rank: 1 out of 226 students)

**Relevant Courses (Grades):** Computer Packages (A), Electronics (A), Electronic Logic for Science (AB), Algebraic for Science (A), Calculus for Science (AB), Thermodynamics and Electromagnetism (A).

## WORK EXPERIENCE

### Graduate Intern

**Biomedical Department, Nisa Premier Hospital** [27/09/2021 – Present]

**Country:** Nigeria

- Maintenance of medical imaging equipment and installation such as Ultrasound, Digital X-rays, Mammogram, and MRI
- Supporting patient diagnosis and treatment by calibrating and repairing medical devices

### Undergraduate Research Assistant

**Biomedical Engineering, University of Ilorin** [15/10/2019 – 05/07/2021]

**Country:** Nigeria

- Assisted academic staff in the Department of Biomedical Engineering in research and administrative work
- Wrote research proposals, reviewed literature, analyzed project data, and reported findings.

**Achievement:** As the lead investigator, I led a team in designing the following:

- Inexpensive collapsible vibration plate for whole-body exercise and physiotherapy in low resource settings
- An eye and mobile application controlled wheelchair for totally and partially paralyzed patients (A computer vision project)

### Advanced Level Teacher - Optics and Waves

**Pythagoras Advanced Studies** [15/11/2017 – 20/02/2020]

**Country:** Nigeria

- Part-time subject teacher for Physics 1 - Optics and Waves
- Conducted practical classes on ray tracing, the reflection of light on a plane and curved mirrors, refraction of light via rectangular block and triangular prism, and double-slit experiment amongst others.
- Graded assessments and quizzes on key modules such as propagation of waves, Interference between waves, mirrors and lens, Optics and Optical instruments

## Student Intern

**Biomedical Department, Nisa Premier Hospital** [04/03/2019 – 30/09/2019]



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**Country:** Nigeria

- Worked at the Medical imaging lab, where I was introduced to several medical imaging machines and their mode of operation.
- Gained experience working with field engineers from General Electric (GE) during the installation of some Medical Imaging devices such as MRI, and Digital X-ray.
- Learnt and carried out repairs with biomedical engineers in the establishment.

## Student Intern

**Biomedical Workshop, University of Ilorin Teaching Hospital** [20/08/2018 – 07/12/2018]

**Country:** Nigeria

- Assembling and repairing medical devices at the biomedical workshop
- Posted to the Radiology department where I was introduced to several medical imaging machines and how to use the dosimeter to measure dose uptake of external ionizing radiation around the lab.

## PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

**Google IT Support: Technical Support Fundamentals, Google, Coursera** [2021]

- The binary system, Hardware, Operating system, Networking and Internet, Software, and Troubleshooting
- Assembled a computer from scratch using a virtual machine.
- Installed an operating system on a computer using Remote Desktop Connection (RDC)
- Utilized common problem-solving methodologies and soft skills in an Information Technology

**Modern Robotics: Foundation of Robot Motion, Northwestern University, Coursera** [2020]

- Robot Configurations, Serial and Closed Chain Robots, Configuration space (C-space), and Degrees of Freedom

**Master Python for Data Science, LinkedIn Learning** [2020]

- Python for Data Science specialization course, consisting of 10 courses and certifications
- Statistics, Advanced Data Analysis (NumPy, Pandas, SciPy), Data Visualization (Matplotlib, Seaborn, Plotly), Machine Learning, and Deep Learning (Tensorflow and Scikit-Learn)

**Programming for Everybody (Python), University of Michigan, Coursera** [2020]

- Introduction to Python, data type, variables, Python tools such as functions and loops, Object-oriented programming

**Introduction to MATLAB programming, Vanderbilt University, Coursera** [2020]

- Fundamental computer programming concepts, variables, functions, data types, loop, and matrices

## PUBLICATIONS AND PRESENTATION

Y.K Ahmed, **T. A. Suleiman**, A. M. Ibrahim, N. A. Danmusa, and H. D. Yusuff, "Inexpensive collapsible vibration plate for whole-body exercise and physiotherapy in low resource settings" Manuscript being prepared for *Journal of Medical Engineering & Technology*  
[Link to abstract](#)

Y.K Ahmed, N. A. Danmusa, K. A. Salahudeen, **T. A. Suleiman**, and H. D. Yusuff, "Design and development of an eye and mobile application controlled wheelchair for totally and partially paralyzed patients," Manuscript being prepared for *Egyptian Rheumatology and Rehabilitation Journal* [Link to abstract](#)

National Association of Biomedical Engineering Students 2021 Workshop, "*Diving Into Technology Hotspots: The Role of Data Science in Bioengineering*", By **T. A. Suleiman**, Department of Biomedical Engineering, University of Ilorin [23/04/2021]

Nanomedicine and Nanotechnology Seminar 2020, "*Applications of Micelles and Dendrimers in Drug Delivery*", By **T. A. Suleiman**, Department of Biomedical Engineering, University of Ilorin [08/01/2020]

## MANAGEMENT AND LEADERSHIP EXPERIENCE

### Class Representative

**Biomedical Engineering, University of Ilorin** [2017 – 2021]

**Country:** Nigeria

- Ensured smooth running of the classroom while serving as a strong link between the lecturers and my colleagues
- Represented the class at faculty class representative meetings
- Ensured to represent my classmates in their best interest and kept them well informed.

### Vice President

**Dareword Students Association (DSA), University of Ilorin (UNILORIN)** [2019 – 2021]

**Country:** Nigeria

- Mentored newly admitted undergraduate students of the University of Ilorin towards achieving academic excellence.
- Peered over 500 fresh undergraduate students to desired mentors which enable them to achieve their career goals.

## President

**National Association of Ebira Students (NAES), UNILORIN Chapter** [2019 – 2021]

**Country:** Nigeria

- Led and promoted Ebira cultural heritage, and peaceful coexistence amongst students of different ethnicity through education and sensitization programs
- Acted as an ambassador for promoting peace and cultural security for the University's Cultural Security Forum (CSF), University of Ilorin

## Academic Excellence/Technical Chair

**National Society of Black Engineers (NSBE), UNILORIN** [2017 – 2019]

**Country:** Nigeria

- Provided mentors and tutors for NSBE Unilorin members.
- Carried out surveys and made decisions to ensure all technicalities are put in place before any program.

## Additional Responsibilities and Experience

**Team Leader:** Undergraduate Research Work, Department of Biomedical Engineering, UNILORIN [2019-2021]

**Secretary-General:** National Association of Biomedical Engineering Students (NABMES), UNILORIN [2017-2018]

## HONOURS AND AWARDS

University of Ilorin Undergraduate Scholarship Award for the Best Student in Biomedical Engineering	[2016-2021]
First Class Honours Award in Biomedical Engineering, UNILORIN	[2021]
Academic Excellence and Altruistic Leadership Award, NAES UNILORIN Chapter	[2021]
Best Presenter and Researcher Award, Academic Elite of Ebiraland (AEE) Annual Competition	[2019]
Academic Excellence Award, NSBE UNILORIN	[2018]
Best Graduating Student in Science Laboratory Technology, KSP	[2015]

## VOLUNTEERING AND COMMUNITY SERVICES

Member and Media team volunteer for OneAfricanChild Foundation	[2021]
Volunteer and member of the sanitation team, Young African Leaders Initiatives, YALI Network	[2021]
Logistic team, Oladepo Timilehin Foundation - Empowering youth and community	[2021]
Dareword Student Association (DSA), Mentor for newly admitted undergraduate students of the University of Ilorin	[2017-2021]
Participated in the NSBE Impact 50 lives community outreach, Kwara, Nigeria	[2019]

## PROFESSIONAL MEMBERSHIP / AFFILIATIONS

<b>Member:</b> Nigerian Society of Engineers (NSE)	[2021]
<b>Member:</b> American Society of Quality (ASQ)	[2017]
<b>Member:</b> National Society of Black Engineers (NSBE)	[2017]
<b>Student Member:</b> National Association of Biomedical Engineering Students (NABMES), UNILORIN	[2015-2021]

## SKILLS AND ABILITIES

**Laboratory:** Medical imaging and simulation, Operating and repairing medical devices, Ray tracing, Microscopy, and Bioinformatics

**Technology/Software:** Data Science, Python, MATLAB, Labview, Zemax OpticStudio, Git/Github, and Anaconda

**Programming Libraries & Frameworks:** NumPy, Pandas, SciPy, Matplotlib, Seaborn, Tensorflow, Pytorch, OpenCV and Scikit-Learn

**Desktop Publishing:** Microsoft Office, Adobe Photoshop, Adobe Premiere Pro, and Figma

**Soft Skills:** Excellent English communication skills (Native English Speaker), Self-confidence, and Good laboratory practice

**Languages:** English (Bilingual Proficiency), Ebira (Bilingual Proficiency), Spanish (Elementary Proficiency)

Welcome to my E-portfolio <https://suleimantaofik6.wixsite.com/einstein/certifications> to learn more about my certifications, experiences, awards, and projects.