

# OBASI YETUNDE OLUWATOYOSI

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## Summary

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I am a post-master's researcher in the Department of Robotics and Mechatronics Engineering at DGIST, South Korea. My research focuses on virtual reality-based systems for microsurgical applications, where I develop deep learning-driven methods to enhance interaction accuracy, sensor reliability, and human-machine performance.

## Education

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**M.Sc. in Artificial Intelligence** *Feb 2023 - Aug 2025*

*Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea*

- **Thesis:** Revolutionizing VR Controller Precision For Micromanipulation Using Time2vec+Transformer model

**B.Sc. in Physics** *Sept 2016 - Oct 2021*

*University of Ilorin, Kwara (Unilorin), Nigeria*

- **Thesis:** Construction of water level controller Using Arduino(Microcontroller)
- Advisor: Professor Akomolafe
- Co-Advisor: Professor Alabi

## Research Experience

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**Post Master Researcher** *Sept. 2025 - Present*

*Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea*

**Graduate Research and Teaching Assistant** *Feb. 2023 - Aug.2025*

*Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea*

- Data collection from various experiments, employing statistical tools and software for in-depth analysis, and interpreting results to draw meaningful conclusions.
- Preparing research papers for publication, including drafting, revising, and finalizing manuscripts, as well as reviewing papers submitted by peers to ensure academic rigor and quality.
- Actively engaging in experimental procedures, following established protocols and documenting observations.
- Graded assignments and exams, offering detailed feedback to support student learning.
- Provided academic support during office hours, addressing individual questions and concerns.
- Monitored student progress and contributed to identifying areas where additional support was needed.

## Work Experience

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**Physics Instructor** *May 2022 - Oct 2022*

*Ben-G Model College, Agege, Lagos, Nigeria*

- Planned and delivered engaging physics lessons aligned with the national curriculum.
- Developed assessments and graded student work to track progress and understanding.

**Physics Instructor** *Nov 2021 - May 2022*

*National School, Yahe, Cross-River, Nigeria*

- Assessed student performance through tests, assignments, and interactive class activities.
- Taught core physics topics to senior secondary students, aligning with national education standards.

**Supervisor - Mighty Adenuga** *Aug 2021 - Nov 2021*

- Managed subordinates to accomplish tasks.
- Ensured proper documentation..

## Technical Skills

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- SolidWorks, Unity, LabView, Blender
- Microsoft word, Powerpoint, Latex(Overleaf)
- Deep Learning

## Research Interest

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- Virtual Reality
- Human Robot Interaction
- Natural Language Processing
- Interaction Design

## Activities and Voluntering

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- Social Media Director DGIST International Student Association, [DISA] 2025
- Social Media Manager DGIST International Student Association, [DISA] 2024
- Assisted in propagating the gospel while in school in various student halls 2016-2021.
- Volunteered as a community Physics and Mathematics Instructor 2018-2021.

## Awards and Conferences

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Most Vibrant(female), NAPS (Nigerian Association of Physics Students, Unilorin Chapter)	July 2021
KMSE society south korea (Poster).	April 2024
IEIE 2024 Summer Conference South Korea (Oral).	June 2024
Conference on Electronics, Semiconductor, and AI South Korea (Poster).	August 2025
DGIST Graduate Scholarship Award	Feb 2023 - Feb 2025
Lotte Foundation Scholarship Award	Feb 2023 - Feb 2025

## Languages

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**English:** Native language; distinguished proficiency in listening, speaking, reading, and writing.

## References

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<b>Prof. Idowu Amos Sesan (Ph.D)</b>	Department of Mathematics-University of Ilorin, Nigeria <i>Email: <a href="mailto:sesan@yahoo.edu.ng">sesan@yahoo.edu.ng</a></i>
<b>Prof. Kayode Oyewumi (Ph.D)</b>	Department of Physics-University of Ilorin, Nigeria <i>Email: <a href="mailto:Kjoyewumi66@unilorin.edu.ng">Kjoyewumi66@unilorin.edu.ng</a></i>
<b>Dr.John Prada(Ph.D)</b>	Daegu Gyeongbuk Institute of Science and Technology Camera Culture Group (CCG), DGIST Division of Intelligent Robot <i>Email: <a href="mailto:prada.john@dgist.ac.kr">prada.john@dgist.ac.kr</a></i>