

Oluwasegun T. AKINNIYI

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Research Interest	Neuroengineering, Brain-Computer Interface, Robotic Rehabilitation, Neuroscience, Machine learning, Artificial Intelligence, Embedded Systems
Education	<div><div>Obafemi Awolowo University (OAU), Ile-Ife, Nigeria2019- present</div><div>M.Sc. Electronic and Electrical Engineering</div><div>Thesis: “Development of a Robotic Platform for Post-Stroke Upper Limb Rehabilitation”</div></div> <div><div>Obafemi Awolowo University (OAU), Ile-Ife, Nigeria2013-2017</div><div>B.Sc., Electronic and Electrical Engineering</div><div>Dissertation Topic: “Development of a Gesture Controlled 3D -Printed Prosthetic Arm”</div></div> <div><div>Lagos State Polytechnic, Lagos, Nigeria2009-2012</div><div>Associate Degree, Computer Engineering</div><div>Capstone Project: “Development of a Gas Leakage detector for Monitoring Gas Pipelines”</div></div> <div><div>University of Cape Town, South AfricaMay - Nov 2020</div><div>Distant Learning Program, Clinical Electroencephalography (EEG)</div></div>
Summer School	<div>IBRO-SIMONS Computational Neuroscience Imbizo Cape Town, South Africa2020</div> <div>Brains, Minds and Machine Summer Course, CBMM, Woods Hole, USA2020</div>
Research Experience	<div><div>Obafemi Awolowo University, Nigeria</div><div>Biosignal Processing, Instrumentation and Control Lab. (Robotic Neuro-rehabilitation, BCI)</div><div><i>Research Assistant to Dr. Ayodele</i>Present</div></div> <div><div>Obafemi Awolowo University Teaching Hospital, Nigeria</div><div><i>Rotation:</i> Neurology Unit, (with Prof. Komolafe)Sep.–Oct. 2019</div><div><i>Rotation:</i> EEG LaboratoryJune–Aug. 2019</div><div><i>Rotation:</i> Neurophysiotherapy Department (with Dr. Ogundele)Jan–March 2019</div></div>
Teaching Experience	<div><i>Electrical Circuit Designs:</i> Teaching Assistant to Dr. Ayodele, (OAU)</div> <div><i>Lab Instructor:</i> Biosignal Processing, Instrumentation and Control Lab, (OAU)</div>
Publication	<div>Ayodele, K. P., Akinniyi, O. T., Oluwatope, A. O., Jubril, A., Ogundele, A., Komolafe, M. (2021) A Simulator for Testing Planar Upper Extremity Rehabilitation Robot Control Algorithms Nigerian Journal of Technology, 40(1), 115-128. http://dx.doi.org/10.4314/njt.v40i1.16</div> <div>Akinniyi, O., Komolafe, M., Ogundele, A., Ayodele, K., Mathew, O., Fawale, B.(2020, November) Stroke-rehabilitation kit as a tool to enhance the quality of rehabilitation of stroke survivors in Nigeria (A pilot study).In international journal of stroke (Vol. 15, No. 1<i>sUPPL</i>, pp.737 – 737).</div>

Komolafe, M., **Akinniyi, O.**, Ayodele, K., Ogundele, A., Fawale, B., Olaogun, M., Adebowale, A. (2020, November). The viability of rehabilitation robotics for stroke rehabilitation in resource-poor environments. In International Journal of Stroke (Vol. 15, No. 1_{SUPPL}, pp.728 – 729).

Kayode P. Ayodele, Femi J. Olugbon, Oluwadare Ogunlade, Olawale B. Akinwale, **Oluwasegun T. Akinniyi** and Lawrence O. Kehinde: A Mobile Percussograph for Medical Examination of the Torso. FUOYE Journal of Engineering and Technology 5.2 (2020). <http://dx.doi.org/10.46792/fuoyejet.v5i2.560>

Data Blitze

Oluwasegun T. Akinniyi , Ayodele K.P.:Development of a upper Limb Rehabilitation Robot for stroke survivors. IBRO Simons Computational Neuroscience Imbizo (2021)

Oluwasegun T. Akinniyi , Ayodele K.P, Komolafe M.A, Ogundele A.O.: Development of a Robotic Neuro-Rehabilitation device for stroke survivors in resource-poor environments. Black in Neuro Conference 2020

Honors & Awards

Heidelberg Laurate Forum—Young Researcher	2020-2021
World Stroke Organization (WSO) Travel Grant, Switzerland — value: 1500 Euros	2020
Simons Trust Imbizo Follow-up Grant, South Africa,— value: \$900	2020
Africa Center for Excellence postgraduate internship grant, Nigeria — value: \$500	2019
MTN Science and Technology Scholarship Award, Nigeria — value: \$1500,	2014-2016
Agbami Medical and Engineering Professional Scholarship Award —value: \$700	2013-2015
Academic Board Prize Award, Lagos State Polytechnic, Nigeria	2011
Engr. Cosmos Odunnaiya Memorial Award, Lagos, Nigeria —value: \$300	2011
Mrs Victoria Odunnaiya Prize Award, Lagos, Nigeria —value: \$300	2011

Software Programming Language

Software: Proteus, MPLAB, Altium, V-REP, MATLAB, L^AT_EX
 Computer language: Assembly, C, Python
 Human Language: English (Native), Yoruba (Native), French (Intermediate), Hindi (Basic)

Work Experience

Tunasha Technologies, Lagos Nigeria
Embedded system Engineer 2017-2018
 -Led the embedded system team; responsible for electronics hardware designs,
 -Circuit PCB, embedded programming & IOT

Total Waste Solution, Indian Institutes of Technology (IIT Dhanbad), India
 Embedded Systems Engineer (Intern) Dec. 2015- May 2016
 Led a team of 5 undergraduate students;
 -Designed an electronic waste tracking device for waste collection in Dhanbad Municipal, India

AIIESEC NIGERIA (IFE): Vice President 2016-2017
 -secured 27 international internships for University students

Societies

World Stroke Organization (WSO), Nigeria Society of Engineers (NSE), IEEE, IAENG