

# Adedayo Akinade

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## EDUCATION

<b>Monash University</b>	<b>In-Progress Ph.D.</b> , Electrical and Computer Systems Engineering
<b>Carnegie Mellon University</b>	2024 <b>M.Sc.</b> , Electrical and Computer Engineering
<b>Federal University of Agriculture, Abeokuta</b>	2021 <b>B.Eng.</b> , Mechatronics Engineering

## RESEARCH EXPERIENCE

My research areas are soft robotics, robot learning, dextrous manipulation, and tactile sensing,

<b>Monash University</b> Electrical and Computer Systems Engineering Department (Melbourne, VIC, Australia)	02/2025 – now	<b>Graduate Research Assistant</b> Supervisors: Dr. Juxi Leitner and Dr. Michael Burke
<b>Carnegie Mellon University</b> <b>Africa</b> AI and Robotics Laboratory (Kigali, Rwanda)	9/2023 – 6/2025	<b>Research Associate</b> Supervisor: Prof. David Vernon
<b>Swiss Federal Technology</b> <b>Institute of Lausanne</b> BioRobotics Laboratory (Lausanne, Switzerland)	6/2023 – 9/2023	<b>Graduate Research Assistant</b> Supervisor: Prof. Auke Ijspeert

## TEACHING EXPERIENCE

<b>Monash University</b> Electrical and Computer Systems Engineering Department (Pittsburgh, PA, USA)	07/2025 – 11/2025	<b>Graduate Teaching Assistant</b> Course: Intelligent Robotics Supervisor: Dr. Juxi Leitner
<b>Carnegie Mellon University</b> Electrical and Computer Engineering Department (Kigali, Rwanda)	01/2024 – 12/2024	<b>Graduate Teaching Assistant</b> Courses: Robotics, Principles and Practice; Cognitive Robotics; Embedded Systems Supervisors: Prof. David Vernon; and Prof. Emmanuel Ndashimye
<b>Carnegie Mellon University</b> Electrical and Computer Engineering Department (Pittsburgh, PA, USA)	08/2023 – 12/2023	<b>Graduate Teaching Assistant</b> Course: Introduction to Embedded Systems Supervisors: Prof. Gregory Kesden and Prof. Mark Budnik

## INDUSTRY EXPERIENCE

Automation and Engineering Academy Mechatronics Engr. Department	09/2020 – 08/2022	<b>Mechatronics Engineer</b> Supervisor: Engr. Adewale Ikotun
LinkServe Consultants Research & Development Department	01/2020 – 09/2020	<b>Research Engineer</b> Supervisor: Engr. Afeez Ishola
HIC MikroLAB Embedded Systems Department	09/2018 – 02/2019	<b>Intern</b> Supervisor: Ibrahim Ogunbayo

## PUBLICATIONS AND PAPERS

*Papers with future venues are accepted to appear in them.*

- Biological Motion Aids Gestural Communication by Humanoid Social Robots. Adedayo Akinade, Daniel Barros, and David Vernon. *International Journal of Humanoid Robotics*, 2025.
- Biological Motion for Gestural Communication by Social Robots. Adedayo Akinade and David Vernon. In *Papers from the Robotics in Africa Forum at the 2024 IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2024.
- Culturally competent social robots target inclusion in Africa. Adedayo Akinade, Yohannes Haile, Natasha Mutangana, Conrad Tucker, and David Vernon. *Science Robotics*, 8, 2023.
- Enhancing the Human-Computer Interaction through the Application of Artificial Intelligence, Machine Learning, and Data Mining. Akinade, A. S., Owwoye, S. O., Adenuga, K. I., and Mustapha, H. A. In *Human-Computer Interaction and Beyond: Advances Towards Smart and Interconnected Environments*, 2022.
- Development of a Solar-Powered Smart Iot-Based Egg Incubator for Small-Scale Poultry Farmers. S.O. Owwoye, F.O Durodola, S.A Akinade, T. Farinde, and O. Sulaimon. *Ife Journal of Information and Communication Technology*, 6(1), pp 46- 53, 2022.
- Design And Implementation of A Hand Gesture Controlled Trolley. Samuel Owwoye, Adedayo Akinade, Folasade Durodola and Samad Bello. In *Proceedings of the Twentieth Nigerian International Materials Congress*, 2021.
- Development of A Fire Extinguishing Robot with SMS Alert Feature. Samuel Owwoye, Adedayo Akinade, Folasade Durodola, Olaitan Olaonipekun, Benedict Anyanwu, Jethro Odeyemi. In *Proceedings of the College of Engineering 3rd International Conference, FUNAAB*, 2021.
- Development of a real-time framework for farm monitoring using drone technology. Oyelami Adekunle, Adedayo Akinade, Obianefo Kingsley. *AES International Journal of Robotics and Automation (IJRA)*, 9, 2020.

## PROJECTS

- CSSR4Africa – Culturally Sensitive Social Robotics for Africa, 2023-2025
- Extending the CRAM cognitive architecture on the PR2 robot, CMU, 2023
- Incremental reinforcement learning for humanoid robots, CMU, 2023
- Development and deployment of Navigation Software for Pepper Humanoid Robot, CMU, 2023
- Design and Development of a Control System for Intelligent Traffic System, 2022
- Automatic Water Refill System for the College of Engineering, FUNAAB, 2021
- Autonomous Fire Extinguishing Robot, 2020
- Solar-powered drone for Real-Time Farm Monitoring with SMS Alert Capabilities, 2020

- Gesture Controlled Trolley, 2020
- Model Design of an Automatic Controlled Gate System, 2018
- Automatic Climatic Condition Monitoring for Greenhouse, 2018

## **AWARDS AND FELLOWSHIPS**

- The best-graduating student, Department of Mechatronics Engineering, FUNAAB, 2021
- Overall best-graduating student, College of Engineering, FUNAAB, 2021
- Best Intern, Automation and Engineering Academy, 2021

## **SERVICE**

- Vice President of IoT Students Club, Carnegie Mellon University, 2023.
- Undergraduate Student representative, College of Engineering, FUNAAB, 2014-2019.