

Education

University of Saskatchewan

Master of Science (thesis) in Biomedical Engineering | *Supervised by Prof. Chris Zhang*

2022 - 2023

Georgia Institute of Technology

Master of Science in Computer Science (Machine Learning Specialization)

2021

Federal University of Agriculture, Abeokuta

Bachelor of Engineering in Mechatronics Engineering (Robotics Specialization) | *Graduated with First Class Honors*

2015 - 2019

University of Cambridge

GCE Advanced Levels

2013 - 2014

Publications

A Novel Embryo Morphology Evaluation Based on Improved YOLOv8 Object Detection Model

Ouafa Talha, Wenju Zhou, Yuan Xu, Qiang Liu, Jethro Odeyemi

LSMS 2024 and ICSEE 2024, Suzhou, China, 2024

On Automated Object Grasping for Intelligent Prosthetic Hands Using Machine Learning

J. Odeyemi, A. Ogbeyemi, K. Wong, W. Zhang

Bioengineering 2024, 11, 108

A Human Factor Approach to Distribution Network Design for E-commerce in Supply Chain System: A Case Study

A. Ogbeyemi, Jethro Odeyemi, O. Igenewari, A. Ogbeyemi

Enterprise Information Systems, 2023

Deep Machine Learning for Sensing, Analysis, and Interpretation in IoT Healthcare

Jethro Odeyemi, S. Owoeye, K. Adenuga, C. Emele

In Reinvention of Health Applications with IoT, Taylor & Francis Group, 2022

Deep Data Analysis for COVID-19 Outbreak

S. Owoeye, Jethro Odeyemi, F. Durodola, K. Adenuga

In Healthcare Monitoring and Data Analysis using IoT, The Institution of Engineering and Technology, 2022

Development of an Ultrasonic Smart Blind Stick with Video and Remote Tracking

Jethro Odeyemi, S. Owoeye, A. Ishola, F. Durodola

COLENG 2021 Conference, Federal University of Agriculture Abeokuta

Development of a Fire Extinguishing Robot with SMS Alert Feature

Jethro Odeyemi, S. Owoeye, F. Durodola, O. Olaonipekun, B. Anyanwu, A. Akinade

COLENG 2021 Conference, Federal University of Agriculture Abeokuta

Awards & Certification

Engineer-in-Training

Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS) |

Certified as an Engineer-in-Training (EIT) by APEGS.

2024

RBC Future Launch Scholarship

RBC Foundation | *1,500 CAD*

2024

BIOE SSF Devolved Scholarship

University of Saskatchewan, Saskatoon, SK | *10,500 CAD*

Awarded for academic and research excellence in bioengineering.

2023

Mitacs Business Initiative

University of Saskatchewan | *45,000 CAD*

2023-2024

Brian Dale Goodchild Award in Engineering

University of Saskatchewan | *8,500 CAD*

2022-2023

General Overseer's Award Beneficiary	2022
The Gospel Faith Mission International 100,000 NGN <i>Awarded for outstanding academic record</i>	
First Class Honor	2021
Federal University of Agriculture, Abeokuta <i>Graduated with first-class honors in Mechatronics Engineering.</i>	
Academician of the Year	2020
GOFAMINT Students' Fellowship <i>Special Recognition.</i>	
Agbami Special Medical and Engineering Professionals Scholarship	2016-2019
Agbami Group of Oil Corporations 400,000 NGN <i>Awarded for consistent academic excellence in engineering.</i>	

Research Experience

University of Saskatchewan	May 2022 – August 2023
Master Researcher, Advanced Engineering Research Laboratory <i>Supervised by Prof. Chris Zhang</i>	
University of Saskatchewan	June 2022 – November 2022
Research Assistant, Department of Psychology and Health Studies <i>Supervised by Prof. Kate Collins</i>	
Osun State University	May 2021 – May 2022
Research Assistant, Department of Mechanical Engineering <i>Supervised by Dr. Busayo Adeboye</i>	

Industry Experience

Roamlit	January 2023 – Present
Lead Software Engineer	
ForesAIT Medical Inc.	January 2024 – July 2024
Chief Technology Officer / Co-Founder	
Phoenix Robots Ng	August 2019 – May 2021
Robotics Engineer	
Doyin Industries Nig. Ltd	February – April 2018, August 2018 – February 2019
Student Intern, Mechanical Engineering	

Academic Service

NSERC CREATE UnLIMITED Program	2023 - Present
Advisor	
Association of Mechatronics Engineering Students (AMTES), Federal University of Agriculture, Abeokuta	2016 - 2019
Founding President	
Data Science Network, Federal University of Agriculture, Abeokuta	2017 - 2018
Deputy Lead	
Class Head, Federal University of Agriculture, Abeokuta	2015 - 2016
Class Representative	

Referee Service

Journal of Management Analytics	July 2024
Expert Systems with Applications	June 2023

Talks

A Novel Embryo Morphology Evaluation Based on Improved YOLOv8 Object Detection Model

International Conference on Life System Modeling and Simulation (LSMS 2024) and Intelligent Computing for Sustainable Energy and Environment (ICSEE 2024) | *hosted by Springer Communications in Computer and Information Science (CCIS)* Virtual | *September 2024*

Advanced Engineering Research Lab Seminar

University of Saskatchewan | *hosted by Prof. Chris Zhang* Saskatoon (Canada) | *April 2023*

Biomedical Engineering Seminar

University of Saskatchewan | *hosted by Prof. Franci Bui* Saskatoon (Canada) | *November 2022*

Development of an Ultrasonic Smart Blind Stick with Video and Remote Tracking

COLENG 2021 Conference, College of Engineering International Conference | *Federal University of Agriculture, Abeokuta* Abeokuta (Nigeria) | *May 2021*

Development of a Fire Extinguishing Robot with SMS Alert Feature

COLENG 2021 Conference, College of Engineering International Conference | *Federal University of Agriculture, Abeokuta* Abeokuta (Nigeria) | *May 2021*

Teaching

University of Saskatchewan

Graduate Teaching Assistant, Introduction to Mechatronics (ME 475)

Winter 2023

Osun State University

Graduate Teaching Assistant, Introduction to Robotics

May 2021 – May 2022

Teaching Feedback

Graduate Teaching Assistant, University of Saskatchewan, Introduction to Mechatronics (ME 475)

Winter 2023

As a Graduate Teaching Assistant, I led hands-on lab sessions and provided guidance in microcontrollers, electronic circuits, and DC motor experiments. Below is representative feedback from students.

Jethro was incredibly knowledgeable and approachable. His hands-on assistance made complex topics easier to understand, and he consistently encouraged us to ask questions.

The lab sessions were challenging but rewarding, thanks to Jethro's clear explanations and patience. He helped us see the practical applications of the concepts we were learning.

Jethro's guidance and enthusiasm for the subject were contagious, making the labs one of my favorite parts of the course. He was always willing to go the extra mile to help us succeed.

Graduate Teaching Assistant, Osun State University, Introduction to Robotics

May 2021 – May 2022

As a Graduate Teaching Assistant, I supported lectures, supervised student projects, and provided mentorship in robotics and mobile robot design. Below is representative feedback from students.

Jethro's mentorship in robotics was transformative. His ability to break down complex concepts made the material much more accessible and boosted my confidence in working with robots.

I appreciated Jethro's dedication and teaching style. His encouragement during project work made a significant difference, and I learned a lot more than I expected in this course.

Jethro was always available for guidance and answered every question with patience and depth. He made the challenging aspects of robotics feel achievable.

Mentoring

CTO, ForesAI Medical Inc.

2024

Recruited and managed two students during their work experience program, guiding them in the development of predictive AI algorithms for glucose level analysis.

Roamlil (NRC IRAP Internship)

2023 - 2024

Led and mentored two students in six-month internships funded by NRC IRAP, focusing on AI-driven projects and practical software development skills.

Roamlil (Riipen Level-UP Program)

2023

Mentored three students on a six-week project through the government-funded Riipen Level-UP program, helping them apply theoretical knowledge in real-world software development.

NSERC CREATE UnLIMITED Program

2023 - Present

Advisor to students in the UnLIMITED program, promoting collaboration in medical instrumentation, technology, and entrepreneurship, with a focus on Indigenous and non-Indigenous student partnerships.

MS Graduate Student Advisor, Advanced Engineering Design Lab

2023 - Present

Advised MS students on their thesis development in prosthetic technology, providing guidance on research methodologies, coding, and data analysis under the supervision of Prof. Chris Zhang.

Let's Talk Science Volunteer

2022 - Present

Engaged high school students in STEM through workshops and hands-on activities, fostering interest in science and technology.

Robotics Lab Organizer, Osun State University

2021 - 2022

Led the setup of the university's first robotics lab, enabling hands-on robotics and AI experiences for students, now integrated into the mechanical engineering curriculum. Mentored final-year students on research projects, including renewable energy and CAD technology.

Data Science Network, Federal University of Agriculture, Abeokuta

2017 - 2018

Deputy lead of the Data Science Network, organizing workshops on Data Science and AI, which inspired many students to pursue professional careers in these fields.

President, Mechatronics Engineering Students Association (AMTES)

2016 - 2019

Founded and served as the first president of AMTES, providing a platform for mechatronics students to have their voices heard. Led initiatives to support academic and career development among students.

Class Head, Federal University of Agriculture, Abeokuta

2015 - 2016

Served as Head of Class at age 15, managing communication between students and lecturers, coordinating assignments, and addressing student concerns. Led tutorial sessions for classmates and other students, fostering academic success and collaboration.

Mentoring Feedback

CTO, ForesAlt Medical Inc.

2024

As CTO, I recruited and managed two students in a work experience program, guiding them in AI development for glucose level prediction models. Below is representative feedback from these students.

Working under Jethro was an incredible learning experience. He created a supportive environment and offered insightful guidance that helped us understand AI model development on a deeper level.

Jethro's mentorship was pivotal in my growth; he provided us with hands-on opportunities and constructive feedback that greatly enhanced our technical and analytical skills.

Volunteering

Med.Hack(+) Hackathon

September 2022 - October 2022

Collaborated with a team to develop MicrobeMinds, an educational game about diseases, leveraging technical skills to create an engaging learning tool for participants.

Let's Talk Science

May 2022 - Present

Volunteer engaging high school students in STEM through interactive workshops and hands-on activities, fostering interest in science and technology.

Technical Department, Redeemed Christian Church of God

May 2022

Managed live streaming operations, camera work, lighting setup, and presentation management during services and events, enhancing the digital and media presence of the church.

Saskatoon Cancer Centre

June 2022 - August 2022

Assisted cancer patients with dietary guidance, providing support on nutritional needs and managing treatment-related dietary side effects.