Jethro Odeyemi

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https://jethroodeyemi.github.io

Georgia Institute of Technology

Education

Georgia Institute of Technology	*2024 - 2025 (expected)*
Master of Science in Computer Science (Machine Learning Specialization)	
University of Saskatchewan	*2022 - 2023*
Master of Science (thesis) in Biomedical Engineering │ *Supervised by Prof. Chris Zhang*	
Federal University of Agriculture, Abeokuta	*2015 - 2019*
Bachelor of Engineering in Mechatronics Engineering (Robotics Specialization) │ *Graduated with First Class Honors*	
University of Cambridge	*2013 - 2014*
GCE Advanced Levels	

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

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

RBC Future Launch Scholarship	*2024*
RBC Foundation │ *1,500 CAD*	
BIOE SSF Devolved Scholarship	*2023*
University of Saskatchewan, Saskatoon, SK │ *10,500 CAD*	
Awarded for academic and research excellence in bioengineering.	
Mitacs Business Initiative	*2023-2024*
University of Saskatchewan │ *45,000 CAD*	
Brian Dale Goodchild Award in Engineering	*2022-2023*
University of Saskatchewan │ *8,500 CAD*	
General Overseer's Award Beneficiary	*2022*
The Gospel Faith Mission International │ *100,000 NGN*	
Awarded for outstanding academic record	
First Class Honor	*2021*
Federal University of Agriculture, Abeokuta │	
Graduated with first-class honors in Mechatronics Engineering.	

Academician of the Year *2020*
GOFAMINT Students' Fellowship │
Special Recgonition.

Agbami Special Medical and Engineering Professionals Scholarship *2016-2019*
Agbami Group of Oil Corporations │ *400,000 NGN*
Awarded for consistent academic excellence in engineering.

Research Experience

University of Saskatchewan *May 2022 – August 2023*
Master Researcher, Advanced Engineering Research Laboratory │ *Supervised by Prof. Chris Zhang*

University of Saskatchewan *June 2022 – November 2022*
Research Assistant, Department of Psychology and Health Studies │ *Supervised by Prof. Kate Collins*

Industry Experience

ForesAIt Medical Inc. *January 2024 – July 2024*
Chief Technology Officer / Co-Founder

Roamlii *January 2023 – August 2024*
Lead Software Engineer

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   *Winter 2023*
Graduate Teaching Assistant, Introduction to Mechatronics (ME 475)

Osun State University   *May 2021 – May 2022*
Graduate Teaching Assistant, Introduction to Robotics

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, ForesAIt 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.

Roamlii (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 develop-
ment skills.

Roamlii (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 knowl-
edge 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, ForesAIt 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.