

Adeolu Adeyinka

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🌐 linkedin.com/in/adeolu-adeyinka 📄 github.com/really-riel

🔗 <https://adeoluadeyinka.vercel.app>

RESEARCH INTEREST

Heat and Mass Transfer | Fluid Mechanics | Thermal Energy Storage | Solar Thermal Technologies | Renewable Energy | AI & ML in Thermal-Fluid Systems

EDUCATION

Federal university of Agriculture, Abeokuta. 📍 2018 – 2023 | Ogun State, Nigeria
Bachelor of Engineering (Honours) in Mechanical Engineering

Grade: Second Class Upper Division

Cumulative Grade Point Average (CGPA): 4.0/5.0 (80%)

Thesis Title: Development of a Forced Convection Solar Cabinet Dryer with Thermal Energy Storage.

Supervisor: Professor M. A. Waheed

Relevant Courses:

Fluid Mechanics, Computer Programming, Applied Thermodynamics, Advanced Machine Design.

RESEARCH EXPERIENCE

Energetic Analysis of Stout Beer Production Processes Ongoing
- Adeyinka A.G

Development of a Forced Convection Solar Cabinet Dryer with Thermal Energy Storage 04/2023 – 12/2023
Federal University of Agriculture, Abeokuta.

- Developed a forced convection solar cabinet dryer with granite as a thermal energy storage (TES) material. Achieved a peak collector outlet temperature of 80.7°C without a blower and no TES.
- Conducted comparative analysis across four distinct test scenarios, demonstrating that the use of granite increased top tray temperatures by up to 12.5 °C compared to configurations without TES.
- Proved the system's suitability for drying agricultural products like pepper and cassava, with the top tray temperature reaching 62.4°C in the best-case scenario.

INDUSTRIAL EXPERIENCE

Guinness Nigeria 11/2024 – Present | Lagos
Engineering Support Specialist

- Improved machine availability from 65% to 76% by managing spares reservation and analyzing downtime for key packaging line machines.
- Utilized SAP to plan, track, and document routine and breakdown maintenance activities on packaging line machines.

- Ensured compliance with safety and quality standards in the handling and filling of glass bottles and cans.

Goldenursh

11/2023 – 05/2024

Web developer (remote)

- Developed responsive front-end interfaces using Next.js and Typescript to improve user experience and performance.
- Integrated Firebase API services (Authentication, Firestore, Storage) to build secure and scalable backend functionality.
- Collaborated closely with a web designer to translate UI/UX designs into functional, high-quality web interfaces.

Domitech Engineering Services Limited

04/2022 – 10/2022 | Lagos

Engineering Intern

- Conducted fabrication and installation of pipelines for Caterpillar's 5MW gas generator set, ensuring efficient system operation.
- Contributed to structural steel erection, gas train installation, and system maintenance.
- Supervised workers to maintain quality standards and meet project deadlines.

Ogun–Oshun River Basin Development Authority (O-ORBDA)

08/2021 – 10/2021 | Ogun

Engineering Intern, Maintenance Department

- Diagnosed and repaired vehicle mechanical systems, applying preventive maintenance to improve reliability.
- Documented maintenance activities

SKILLS

Programming Languages:

Python (data analysis), SQL, JavaScript, CSS, HTML

Software & Design skills

Microsoft Office (Word, Excel, PowerPoint), AutoCAD, FIGMA, SAP S/4 HANA (MM & PM)

Programming Libraries & Frameworks

NumPy, Pandas, Matplotlib, React, Next js, Redux, Tailwind, SCSS,

Soft skills

Strong analytical ability and teamwork skills


PROFESSIONAL DEVELOPMENT COURSES AND TRAINING

Python for Data Analysis 
simplilearn

2025

Sustainable Energy Accelerator (SEA) Program
AIIDEV Africa E-Learning

2025

Intro to Machine Learning 
Kaggle

2025

Engineering: The challenge of temperature 
The Open University

2025



Energy resources: solar energy 
The Open University

2025


CONFERENCE/WORKSHOPS ATTENDED

PowerElec '25 Discover latest innovation in solar, renewables, storage and electrical sector.	01/2025 Landmark Center, Lagos, Nigeria
Bluechip Data & AI summit Empowering the digital Era	12/2024 Eko hotel, Lagos, Nigeria

MEMBERSHIP OF PROFESSIONAL SOCIETIES

International Association of Engineers (IAENG) 	Present
The Nigerian Society of Engineers (NSE) 	Present

HONORS AND AWARDS

Selected Participant, Sustainable Energy Accelerator (SEA) Programme  AIIDEV Africa	02/2025
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VOLUNTERING & LEADERSHIP EXPERIENCE

Youth Assistant Program Coordinator RCCG Resurrection Parish <ul style="list-style-type: none">Assist in organizing and coordinating youth programs, events, and activities to foster community engagement and spiritual growth.	09/2024 – present Ogun state
Independent Corrupt Practices & Other Related Offense Commission (ICPC) Community Development Service (CDS) <ul style="list-style-type: none">Organized sensitization road walks, rallies, and seminars to raise awareness about corruption.	07/2024 – 06/2025 Lagos State
Man O' War Volunteer National Youth Service Corps (NYSC) Orientation Camp <ul style="list-style-type: none">Engaged in leadership, teamwork, and physical training activities, promoting discipline and community service among fellow corps members.	06/2024 – 07/2024 Lagos State



FEDERAL UNIVERSITY OF AGRICULTURE, ABEOKUTA

P.M.B 2240, ABEOKUTA

OFFICE OF THE REGISTRAR

STATEMENT OF RESULT

2017/2018

Academic Session

NAME: ADEYINKA, Adeolu Gabriel

MATRIC. NO.: 20171420

100L

DEGREE OPTION: MECHANICAL ENGINEERING

FIRST SEMESTER



Course Code	Course Title	Unit	Point	Grade
CHM101	INTRODUCTORY PHYSICAL CHEMISTRY	3	12	B
CHM191	PRACTICAL CHEMISTRY I	1	4	B
GNS101	USE OF ENGLISH	2	8	B
GNS102	INTRODUCTION TO NIGERIAN HISTORY	1	4	B
GNS111	Introduction to Social Problems	1	5	A
GNS203	USE OF LIBRARY	1	4	B
MCE101	INTRODUCTION TO ENGINEERING DRAWING	2	8	B
MCE103	INTRODUCTION TO MECHANICS I	1	5	A
MTS101	ALGEBRA	3	9	C
MTS103	VECTORS AND GEOMETRY	2	6	C
PHS101	GENERAL PHYSICS I	3	6	D
PHS191	PHYSICS LABORATORY I	1	5	A

Total Semester Units Obtainable

21

Number of Units Obtained

21

Grade Point Average (G.P.A.)

3.62

Cummulative GradePoint Average (C.G.P.A.)

3.62

SECOND SEMESTER

Course Code	Course Title	Unit	Point	Grade
ABE106	ELEMENTARY FLUID FLOW	1	5	A
CHM102	INTRODUCTORY ORGANIC CHEMISTRY	2	6	C
CHM104	INTRODUCTORY INORGANIC CHEMISTRY	2	8	B
CHM192	PRACTICAL CHEMISTRY II	1	2	D
MCE102	INTRODUCTION TO MECHANICAL ENGINEERING	1	5	A
MTS102	CALCULUS AND TRIGONOMETRY	3	9	C
MTS104	MECHANICS	3	12	B
PHS102	GENERAL PHYSICS II	3	15	A
PHS192	PHYSICS LABORATORY II	1	4	B
STS102	INTRODUCTION TO STATISTICS	2	10	A

Total Semester Units Obtainable

19

Number of Units Obtained

19

Grade Point Average (G.P.A.)

4.00

Cummulative GradePoint Average (C.G.P.A.)

3.80

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Registrar

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NB: This is not a replacement for the official Transcript.

STATEMENT OF RESULT

2018/2019

Academic Session

DEGREE OPTION: MECHANICAL ENGINEERING

MATRIC. NO.: 20171420

FIRST SEMESTER

LEVEL: 200L

Course Code	Course Title	Unit	Point	Grade
ABE201	ENGINEERING DRAWING I	2	10	A
CSC201	INTRODUCTION TO COMPUTER SCIENCE	3	12	B
CVE201	ENGINEER IN SOCIETY	1	4	B
ELE201	APPLIED ELECTRICITY I	2	10	A
ELE203	FUNDAMENTALS OF ICT	2	8	B
ELE291	APPLIED ELECTRICITY LABORATORY I	1	5	A
GNS201	WRITING AND LITERARY APPRECIATION	1	5	A
MCE201	ENGINEERING MECHANICS I	2	10	A
MCE203	ENGINEERING MATERIAL	3	15	A
MCE205	FLUID MECHANIC I	3	12	B
MTS201	MATHEMATICAL EQUATIONS	3	12	B

Total Semester Units Obtainable

23

Number of Units Obtained

23

Grade Point Average (G.P.A.)

4.48

Cummulative GradePoint Average (C.G.P.A.)

4.05

SECOND SEMESTER

Course Code	Course Title	Unit	Point	Grade
ABE202	ENGINEERING DRAWING II	2	8	B
ABE204	WORKSHOP PRACTICE	2	8	B
CVE202	STRENGTH OF MATERIALS	2	8	B
ELE202	APPLIED ELECTRICITY II	2	6	C
ELE292	APPLIED ELECTRICITY LABORATORY II	1	4	B
ETS206	ENTREPRENEURSHIP STUDIES AND CHANGE MANAGEMENT	2	6	C
GNS204	LOGIC AND HISTORY OF SCIENCE	2	6	C
GNS206	PEACE AND CONFLICT RESOLUTION	2	10	A
MCE202	ENGINEERING MECHANICS II	2	8	B
MCE204	ENGINEERING THERMODYNAMICS	3	15	A
MTS232	ORDINARY DIFFERENTIAL EQUATIONS	2	10	A

Total Semester Units Obtainable

22

Number of Units Obtained

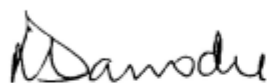
22

Grade Point Average (G.P.A.)

4.05

Cummulative GradePoint Average (C.G.P.A.)

4.05



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STATEMENT OF RESULT

2019/2020

Academic Session

DEGREE OPTION: MECHANICAL ENGINEERING

MATRIC. NO.: 20171420

FIRST SEMESTER

LEVEL: 300L

Course Code	Course Title	Unit	Point	Grade
CSC203	COMPUTER PROGRAMMING I	2	6	C
ELE305	ELECTROMECHANICAL DEVICES & MACHINES I	3	15	A
MCE313	MANUFACTURING SCIENCE AND TECHNOLOGY	2	10	A
MCE317	STRENGTH OF MATERIALS II	3	15	A
MCE321	MECHANICS OF MACHINES I	3	15	A
MCE323	FLUID MECHANICS II	3	12	B
MCE325	APPLIED THERMODYNAMICS I	3	9	C
MCE341	ENGINEERING MATHEMATICS I	3	12	B

Total Semester Units Obtainable 22

Number of Units Obtained 22

Grade Point Average (G.P.A.) 4.27

Cummulative GradePoint Average (C.G.P.A.) 4.09

SECOND SEMESTER

Course Code	Course Title	Unit	Point	Grade
ELE306	ELECTROMECHANICAL DEVICES & MACHINES II	3	15	A
ELE342	ENGINEERING MATHEMATICS II	3	9	C
MCE302	DESIGN OF MACHINE ELEMENTS	3	12	B
MCE312	WORKSHOP PRACTICE II	1	4	B
MCE316	INTRODUCTION TO COMPUTER AIDED DESIGN AND MANUFACTURING	2	6	C
MCE318	ENGINEERING METALLURGY I	3	9	C
MCE320	CONTROL SYSTEMS	3	9	C
MCE324	MATERIALS SCIENCE FOR ENGINEERS	3	9	C
MCE350	ENGINEERING ENTREPRENEURSHIP	2	0	F

Total Semester Units Obtainable 23

Number of Units Obtained 21

Grade Point Average (G.P.A.) 3.17

Cummulative GradePoint Average (C.G.P.A.) 3.93



Registrar

STATEMENT OF RESULT

2020/2021

Academic Session

DEGREE OPTION: MECHANICAL ENGINEERING

MATRIC. NO.: 20171420

FIRST SEMESTER

LEVEL: 400L

Course Code	Course Title	Unit	Point	Grade
ABE413	ENGINEERING COMMUNICATION	2	8	B
ABE443	STATISTICS FOR ENGINEERS	3	15	A
MCE411	AUTO WORKSHOP PRACTICES	2	8	B
MCE413	TECHNOLOGY POLICY AND DEVELOPMENT	2	6	C
MCE415	HEAT TRANSFER	2	10	A
MCE417	FLUID MECHANICS III	2	10	A
MCE419	APPLIED THERMODYNAMICS II	2	6	C
MCE421	MECHANICS OF MACHINES II	2	8	B
MCE487	LABORATORY PRACTICALS III	3	9	C

Total Semester Units Obtainable

20

Number of Units Obtained

20

Grade Point Average (G.P.A.)

4.00

Cumulative GradePoint Average (C.G.P.A.)

3.94

SECOND SEMESTER

Course Code	Course Title	Unit	Point	Grade
MCE200	STUDENTS' WORK EXPERIENCE PROGRAMME (SWEP)	3	12	B
MCE297	SWEP SEMINAR & REPORT	2	8	B
MCE300	STUDENTS' INDUSTRIAL WORK EXPERIENCE SCHEME I (SIWES I)	3	12	B
MCE397	SIWES SEMINAR I	2	6	C
MCE400	STUDENTS' INDUSTRIAL WORK SCHEME II (SIWES II)	8	40	A
MCE497	SIWES SEMINAR II	2	8	B

Total Semester Units Obtainable

20

Number of Units Obtained

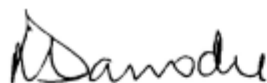
20

Grade Point Average (G.P.A.)

4.30

Cumulative GradePoint Average (C.G.P.A.)

3.98



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STATEMENT OF RESULT

2022/2023

Academic Session

DEGREE OPTION: MECHANICAL ENGINEERING

MATRIC. NO.: 20171420

FIRST SEMESTER

LEVEL: 500L

Course Code	Course Title	Unit	Point	Grade
CVE509	Industrial Entrepreneurship	2	10	A
MCE501	Production Engineering	2	10	A
MCE505	Tribology	3	12	B
MCE509	Mechanical Maintenance	3	12	B
MCE511	Advanced Computer Aided Design and Manufacturing	2	6	C
MCE515	Corrosion and Water	3	15	A
MCE521	Internal Combustion Engines	2	8	B
MCE527	Advance Machine Design I	2	6	C
MCE587	Laboratory Practical IV	3	9	C
MCE597	Seminar I	1	5	A

Total Semester Units Obtainable

23

Number of Units Obtained

23

Grade Point Average (G.P.A.)

4.04

Cummulative GradePoint Average (C.G.P.A.)

3.99

SECOND SEMESTER

Course Code	Course Title	Unit	Point	Grade
MCE350	ENGINEERING ENTREPRENEURSHIP	2	10	A
MCE502	Production Engineering II	3	12	B
MCE506	Fluid Machinery	2	8	B
MCE508	Power Generating Plant	3	12	B
MCE514	Advanced Machine Design II	2	6	C
MCE520	Engineering Metallurgy II	2	10	A
MCE522	Engineering Law and Management	2	10	A
MCE532	Engineering Material Selection and Economics	3	12	B
MCE598	Seminar II	1	3	C
MCE599	Project Report	4	16	B

Total Semester Units Obtainable

24

Number of Units Obtained

24

Grade Point Average (G.P.A.)

4.13

Cummulative GradePoint Average (C.G.P.A.)

4.00

W. Sambo
Registrar

PASSED, WITH SECOND CLASS UPPER DIVISION