

# Adeolu Adeyinka

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 [linkedin.com/in/adeolu-adeyinka](https://linkedin.com/in/adeolu-adeyinka)  [github.com/really-riel](https://github.com/really-riel)  <https://rielcodes.vercel.app>

## RESEARCH INTEREST

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

## EDUCATION

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**Federal university of Agriculture, Abeokuta.**   
Bachelor of Engineering (Honours) in Mechanical  
Engineering

2018 – 2023 | Ogun State, Nigeria

**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

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

Ongoing

**Development of a Forced Convection Solar Cabinet Dryer  
with Thermal Energy Storage**  
Federal University of Agriculture, Abeokuta.

04/2023 – 12/2023

- 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

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**Guinness Nigeria**  
Engineering Support Specialist

11/2024 – Present | Lagos

- 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

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### 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

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### 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**

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**PowerElec '25** 01/2025  
Discover latest innovation in solar, renewables, storage and Landmark Center, Lagos, Nigeria electrical sector.

**Bluechip Data & AI summit** 12/2024 | Eko hotel, Lagos, Nigeria  
Empowering the digital Era

## **MEMBERSHIP OF PROFESSIONAL SOCIETIES**

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**International Association of Engineers (IAENG)** ⚡ Present

**The Nigerian Society of Engineers (NSE)** ⚡ Present

## **HONORS AND AWARDS**

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**Selected Participant, Sustainable Energy Accelerator (SEA) Programme** 02/2025  
AIIDEV Africa

## **VOLUNTEERING & LEADERSHIP EXPERIENCE**

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**Youth Assistant Program Coordinator** 09/2024 – present | Ogun state  
RCCG Resurrection Parish  

- Assist in organizing and coordinating youth programs, events, and activities to foster community engagement and spiritual growth.

**Sunday School Teacher** present | Ogun State  
RCCG Resurrection Parish  

- I taught the junior sunday school class

**Independent Corrupt Practices & Other Related Offense Commission (ICPC)** 07/2024 – 06/2025 | Lagos State  
Community Development Service (CDS)  

- Organized sensitization road walks, rallies, and seminars to raise awareness about corruption.

**Man O' War Volunteer** 06/2024 – 07/2024 | Lagos State  
National Youth Service Corps (NYSC) Orientation Camp  

- Engaged in leadership, teamwork, and physical training activities, promoting discipline and community service among fellow corps members.



## 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

## 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

## SECOND SEMESTER

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

4.05

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

Registrar

## 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

## SECOND SEMESTER

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

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

Registrar

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



## 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

Cummulative 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

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

3.98

Registrar

## 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

PASSED, WITH SECOND CLASS UPPER DIVISION