

# Nuhu Divine Hyellafuda

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## PROFESSIONAL SUMMARY

First-year Electrical & Electronics Engineering student at Covenant University with a focused interest in Power Electronics and Machine Learning. Passionate about engineering sustainable solutions for Electric Vehicle (EV) technology. Committed to First Principles thinking and eager to apply emerging skills in simulation and AI to real-world energy challenges.

## EDUCATION

### Covenant University

Ota, Nigeria

Bachelor of Engineering (B.Eng.) in Electrical & Electronics Engineering  
(Expected)

Oct 2025 – July 2030

- Relevant Coursework:** Engineering Mathematics, Applied Physics (Electricity & Magnetism), Basic Electrical Circuits, Introduction to Computing, Technical Drawing.

### Great Faith International School

Port Harcourt, Nigeria

West African Senior School Certificate (WASSCE)

2019 – 2025

- Graduated with strong distinctions in Mathematics, Further Mathematics, and Physics.

## TECHNICAL SKILLS

**Design & Simulation:** MATLAB & Simulink (In Progress), LTspice (In Progress), Circuit Design.

**Specialized Interest:** Power Electronics, EV Powertrain Systems, Renewable Energy.

**Tools & Software:** Microsoft Office Suite (Advanced Word, Excel, PowerPoint).

**AI & Machine Learning:** Currently undergoing Microsoft Training on ML and Artificial Intelligence.

## ACADEMIC & PERSONAL PROJECTS

### EV Systems Modeling (Incoming)

Feb 2026 – Present

- Initiating simulation projects using MATLAB to model battery discharge cycles.
- Utilizing LTspice to design and analyze basic DC-DC converter circuits for power efficiency.

### AI Integration Study

Jan 2026 – Present

- Exploring the application of Machine Learning algorithms to optimize battery management systems (BMS).

## SOFT SKILLS & CORE COMPETENCIES

- Analytical:** Problem Solving, First Principles Analysis, Critical Thinking.
- Operational:** Time Management, Ability to Work Under Pressure, Multitasking, Team Collaboration.

## INTERESTS & LANGUAGES

- Interests:** Robotics, STEM Competitions, Chess (Strategy), Tech Articles.
- Languages:** English (Native/Professional), French (Elementary).