

**DESIGN
BUILD
TEST
COMPETE**



HEBRON MOTORSPORTS

2022

SPONSORSHIP PACKET

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HEBRON
MOTORSPORTS

Our mission is to inspire the average child/youth in our locality through the exciting piece of a race car, that he/she can do great things!!

HEBRON MOTORSPORTS

Hebron Motorsports is the future of innovative and competitive motorsport in Nigeria and Africa. We are a team of ardent students of various disciplines ranging from engineering to mass communication from one of Nigeria's Leading University, Covenant University. We are set to compete in the dynamic class next year. The competition will hold at the Silverstone Race Circuit, Northamptonshire, UK.

HEBRON MOTORSPORTS MISSION STATEMENT

- To be a top performer at Formula student events globally
- To consistently take theoretical knowledge from all fields of study and turn it into a tangible, valuable and practical product.
- To establish the team as a leading automobile research center in the world.

HEBRON MOTORSPORTS VISION STATEMENT

To ensure motorsports becomes a dominant industry in Nigeria and Africa at large.

REPRESENTATION

We are not only limited to an international competition. Our aspirations ultimately lie in having a vibrant and powerful Motorsport industry locally. To this end, we have outlined the following events we aim to carryout in the community. Not forgetting, carrying your logo too on all our apparel and race car. Community events include:

- Mentor local secondary school students in S.T.E.M
- Represent the youth body at motorsports events in Nigeria
- Host an annual Hebron Motorsports fair on campus
- Career day and college week on campus

ABOUT THE TEAM



TEAM MEMBERS FABRICATING PARTS PARTS

IN THE COMMUNITY



TEAM MEMBERS FABRICATING PARTS

FORMULAR Student SERIES

WHAT IS FORMULA

Formula Student is an international engineering design competition first held by the Society of Automotive Engineers in 1979. The goal is to develop and provide a platform for student engineers to experience, build, and learn. It offers a unique way to test students' theoretical knowledge in a practical context. Students gain and develop skills such as engineering, project management and team work. Points are earned in a series of off track, "Static" events, and on track, "Dynamic" events. The team with the most points at the end of the competition wins. The growing popularity of the competition is proven by the rapidly rising number of participants and the establishment of new events. Since the inaugural competition in 1979, the Formula Student competitions have developed into an international competition with participants from over 20 different countries and over 600 universities.

COMPETITION CATEGORIES



Static Events

Cost (100 Points)

Here, the team is evaluated on manufacturing techniques. A detailed report of all cost and capital expenses is submitted. Hence, accounting, and financial skills are learned.

Presentation (75 Points)

Here the teams create and present a business plan to a group of potential investors. This event challenges students to use their economic, business, and advertising knowledge to sell their company and product.

Design (150 Points)

Student's design and manufacturing processes are judged by working professionals in the automotive Racing and performance industry. They are examined for their knowledge and integration of the following components kinetics, dynamics, fluid mechanics and thermodynamics to for a competition winning car.

Dynamic Events

Acceleration (75 Points)

This event evaluates the car's acceleration in a straight line for 75 meters on flat pavement.

Skid-Pad (50 Points)

The car is measured on its ability to corner on a flat pavement while driving a constant radius turn.

Autocross (150 Points)

This event shows the car's ability to handle in hairpin turns, slaloms, and straights without the hindrance of competing cars. If a cone is knocked down, time is added to the total time to complete this one-lap course.

Endurance/Fuel Economy (400 Points)

This 22km course not only tests the car's reliability and overall performance but the driver's skill and composure. Halfway, a driver change MUST be done and at the end, fuel used is measured against other teams for final points

CAR TARGET

- Target weight of 500 lbs
- Chromoly steel tubes (AISI 4130 alloy)
- Utilizing a Honda CBR 600 cc engine
- Adoption of an electro-pneumatic system for optimum shifting

VEHICLE MANUFACTURE TIMELINE

TIMELINE	DATE
Begin design	August 2021
End design	November 2021
Begin manufacture	December 2021/ January 2022
End manufacture	April 2022
Begin testing	April 2022
End testing	May 2022
Shipping vehicle	May 2022
Competition begins	July 2022

APPENDIX

- * **What is Formula Student**
- * **The Events at a Formula Student Competition**



BUDGET

MANUFACTURE PARTS	PRICE
Frame	N1,350,000
Electronics	N2,600,000
PowerTrain	N2,000,000
Suspension	N3,600,000
Brakes and Steering	N2,350,000
TOTAL	N11,900,000

OPERATIONS PARTS	PRICE
Branded Apparel	N300,000
Mobile Toolbox and Workshop Supplies	N2,000,000
Logistics and Part Delivery	N6,500,000
Local Fair	N6,000,000
Travel and Accommodation	N9,000,000
TOTAL	N23,800,000

GRAND TOTAL	N35,700,000
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THANKS TO OUR SPONSORS



MathWorks, Ricardo, Ansys, Altium, MSC Adams, Solidworks

GALLERY




















Members with Mercedes F1 W06 Hybrid

SPONSORSHIP PACKAGE

Get Involved!!

In Order to keep this path of excellence, Hebron Motorsports is reaching out to the time, talent, and treasure of the INDUSTRIAL community

SPONSORSHIP LEVEL	PRICE
Friends	N70,000-N200,000
Bronze Level	N400,000-N600,000
Silver Level	N1,000,000-N2,000,000
Gold Level	N3,000,000-N4,500,000
Partnership Level	N7,000,000

SPONSORSHIP LEVEL BENEFITS	FRIENDS	BRONZE LEVEL	SILVER LEVEL	GOLD LEVEL	PARTNERSHIP LEVEL
Name and Logo on Website					
Appearance on Competition Car	Name Only	Logo	Logo	Logo	Logo
Logo sizing on Competition Car		Small	Medium	Large	Extra Large
Invitation to Hebron Motorsports Events					
Logo on Team Apparel					
Invitation to Weekends Test Session					
Complimentary Team Apparel					
Invitation to Team's Camp before Departure for Competition					
Company Banner Displayed At Events					

BENEFITS OF GETTING INVOLVED

- . Have a direct hand in Nation building
- . Be directly involved in useful youth engagement
- . Reach nearly 100 top engineering firms from around the world at Formula student UK alone
- . Photos of the car featuring sponsor logos published on university and team websites, in event media reports, university materials, and often appear in various racecar magazines and publications
- . Have a direct hand in promoting STEM education.
- . Make history by being one of the pioneering inputs into the future of African motorsports



HMS PROPOSED CAR MODEL