

# ETSEIB Motorsport among the best teams of the Formula Student

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CAT 12e and XALOC, the two revolutionary new cars of the ETSEIB MOTORSPORT - UPC (ETSEIB + ETSETB) team have obtained great results in the competitions this past August. The team has not only faced some of the best teams in the Formula Student, but also remains the best team in Spain in the Electric and Driverless categories.



The **CAT 12e** is the twelfth electric car designed and manufactured by the **ETSEIB Motorsport**, and it is a revolution: it has gone from a vehicle with a single engine and rear-wheel drive to a vehicle with an engine on each wheel and independent control with the technology of Vectoring torque. The new vehicle is lighter and faster, thanks to an optimized use of carbon fiber in the manufacture of the monocoque and the new and sophisticated aerodynamics. In addition, the cooling system, ergonomics and telemetry have been improved, the suspension has been redesigned, and a two-stage planetary transmission adapted to the 4 engines of each wheel has been designed and manufactured.



The new car could be ready for **Formula Student Spain**, where it had very good results. Of 39 electrical equipment, ETSEIB Motorsport was at the height of the best: in the Business Plan we obtained 3rd place; in the Design Event the 8th place, and in the dynamic tests we obtained the 9th position in the Skidpad, the 7th in the Endurance and the 4th in Efficiency.

All these results have placed the team in the **8th place in the general classification, being the best team in Spain in the electrical category.**



**XALOC is the first Formula Student autonomous vehicle in the country, built by the members of Driverless UPC - (ETSEIB + ETSETB).**

This was the first year that the team faced this new challenge, and it has obtained results that have exceeded all expectations: it has obtained the **2nd overall position in Formula Student Czech** and the **4th overall position in Formula Student Spain.**



It is also worth noting the **1st position in both the Cost Report and the Business Plan** and a **2nd position in the Design in Formula Student Czech**.

In Formula Student Spain, only the Barcelona team finished the toughest test of the competition, called **Trackdrive**, together with the German Karlsruhe team. This milestone has been especially important, since it is very exceptional for a team to finish this test in their first year participating in the competition. In addition, the team achieved in the local competition the **2nd position in the Cost Report**, **3rd position in the Business Plan**, **2nd position in Acceleration**, **2nd position in Autocross** and **2nd position in Trackdrive**.



The team has been renewed for the next season, and begins work on the **CAT 13e** and the **CAT 13 dvl's**.