



# NEWSLETTER

## REVIEW OF 2018 SEASON



# CAT11e



The CAT11e is the eleventh single-seater done by ETSEIB Motorsport, being it the seventh electrical. During this last season the team redesigned the single-seater with the aim to make it faster and lighter. They succeeded by reducing the weight from 219 kg to 203 kg, which was accomplished by a better usage of the carbon fiber in the monocoque ( a 5 kg reduction) and the implementation of topological optimizations while still maintaining the geometry of the previous year. A better and more reliable electronics and powertrain systems have provided more stability and competitiveness. If focussing on the vehicle dynamics, optimum suspension setups for each dynamic event have caused an improvement in the vehicle performance on track. Also, all the aerodynamics have been redesigned such as the new rear-spoiler with monkey seat, the front-wing, whose new design has improves the undertray efficiency, and the three-element DRS rear-wing.

# FS Czech Republic



After a couple of days travelling, the team reached the Formula Student Czech Republic competition, which was held at At the Autodrom Most motor racing circuit. Once they were installed, the team completed the scrutineer inspection smoothly and was able to concentrate in the static events, in which they managed to obtain really good results: 4th place in the Business Plan Presentation, 3rd place in the Engineering Design and 1st place in the Cost Report. In regards the dynamic events, ETSEIB Motorsport achieved 1st place at Skipad, this being the first time it had ever won a dynamic event. In acceleration, the team finished in 4th place although they managed to end up in third place at Autocross and thus being classified for the Endurance final. Sadly this event was cancelled due to heavy rain which made driving conditions really dangerous. Overall the team still achieved 3rd place in the general classification, a great result when speaking about the first competition of the season.

# FS Germany

Once Formula Student Czech Republic finished, the team headed towards the Hockenheim circuit where the most important competition was about to be hosted, Formula Student Germany. As a result of winning the 2017 prize for the best prepared car for scrutineering, the team was the first to enter the technical inspection area which also led them to be first out. In consequence, ETSEIB Motorsport was able to have a whole day to test the car before the dynamic events and concentrate in the static events, in which they managed to obtain the 26th position in Cost Report, 7th position in Engineering Design and for the first time, 5th position in Business Plan after classifying in the finals of the most prestigious competition in the world.

The team, with a renewed confidence, faced the dynamic events with the purpose of competing against the best teams of the world. They achieved a great 6th place in Skidpad, a 10th place in Acceleration and a 16th place in Autocross. Although having these admirable positions, in the Endurance event the team suffered reliability problems in the suspension system which led to having to forfeit the event. Consequently, the team only managed to place in 16th position in the global ranking team between the 40 participants, although they were aiming much higher.

# FS Spain

Finally, to finish the season, CAT11e headed its way to the Formula Student Spain competition, where year after year some of the greatest teams go to compete. Much the same as in the latest competitions, the team overcame the first phase of the competition, the scrutineering, easily and where able to better prepare themselves for the other events. In regards to the static events, ETSEIB Motorsport was placed in 7th position in the Engineering Design, in 9th position in the Cost Report and in the Business Plan finals, obtaining the 2nd position in the electric category. On the other hand, the dynamic events were not as high performed as in the previous competitions, which was expected because of the suspension problem in Germany. But still, the team achieved the 14th place in Skidpad, 15th place in Acceleration and the 19th place in Autocross. In Endurance, the car again suffered reliability problems, this time with the brake system which also led them to not finish the race. Despite the complications, the team managed to finish in 18th position in a competition which welcomed 39 participants.





Principal



Platinum



Gold



Silver

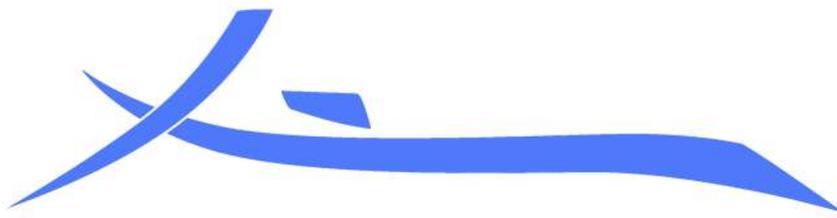


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