

# 1 Cost and Manufacturing Event FSPT 2024

The following is with relation to the Cost and Manufacturing Event as located in the FSG Rules Book under Section S 2.2.5. The Real Case mentioned below has to be presented via a ten minutes presentation during your time slot at the Cost and Manufacturing Event.

## 1.1 Real Case Topic (EV and DV)

Digitalization does not stop at vehicle construction and more and more vehicles are being equipped with sensors and driver assistance systems. For a few years now, Formula Student has had a Driverless category, where the racing cars drive autonomously. Various sensors such as radar or LiDAR are used there.

Using the HESAI Pandar 40P LiDAR as an example, please explain the basic functionality and manufacture of the device. Please describe the manufacturing process and the cost calculation for any LiDAR.

## 1.2 Important points:

- Provide transparency in the creation of your presentation.
- The judges want to see how you arrived at the results and which source you used.
- Focus on the production phase (from the raw materials to the finished product).
- Present your results to the judges and be sure to take a systematic and realistic approach to your solution.

## 1.3 Real case presentation requirements:

- Max. 10 min in length.
- 5 min questions to your presentation after that from the Judges.
- One A4 page handout for the Judges (print and as PDF).

We look forward to your presentation!