

FSAE-A Cost Task 2016

The Managing Director of your company has been looking at your competitors' prototypes, and noted that different teams appear to typically use the following types of body/frame construction:

- Tubular Space Frame (with Carbon Fibre/Fibreglass/Aluminium body panels)
- Carbon Fibre Monocoque (with Carbon Fibre/Fibreglass/Aluminium closeouts & finishing panels)
- Aluminium Monocoque (with Carbon Fibre/Fibreglass/Aluminium closeouts & finishing panels)
- Hybrid versions of the above types

Your team has been tasked to investigate the best value approach to body/frame construction, against the criteria listed below. Additionally, you are to provide justification as to why you have chosen your particular design for the prototype, instead of the other types of construction.

Value criteria:

- Vehicle performance
- Vehicle cost
- Ease of manufacture/assembly
- Perceived value/quality/performance to the customer

You are to make a 5-minute presentation to address this request. A further 5 minutes will be dedicated to questions and feedback from the judges.

You may use binders, folders or electronic equipment to conduct your presentation. Keep in mind that more than one judge may be observing your presentation at any given point. Having a copy that you can leave with the judges can assist their subsequent discussions.