

Dash Element Survey

TFR Systems Integration 2024

Instructions

Please answer this solely from the perspective of being a FSAE test/competition driver. The systems integration team will use this information to develop a practical dashboard solution.

Circle experience level. Circle dash elements that are important to you as a driver. Cross out elements that you prefer to be excluded.

Experience

One session is at least ~5min of driving.

- 0 sessions
- 1 – 5 sessions
- 5+ sessions

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Diagnostic Elements

The purpose of diagnostic dash elements is to inform the driver of potential mechanical/electrical failures. They are particularly helpful in quickly identifying which component(s) are problematic, allowing drivers to adapt their driving style and efficiently communicate problems to the engineers.

- Oil pressure
 - Threshold warning light
 - Live numerical readout
- Fuel pressure
 - Threshold warning light
 - Live numerical readout
- Coolant temperature
 - Threshold warning light
 - Live numerical readout
- Battery voltage
 - Threshold warning light
 - Live numerical readout

Driver-centric Elements

The purpose of driver-centric dash elements is to enhance the driver's ability to focus. Piloting a racing car is overwhelming and requires complete awareness of the vehicle. There are many useful bits of information that can be moved from the driver's brain onto a dashboard to relieve some mental load. But remember, the styling of information is as important as the selection itself, because that determines how effectively a driver can process it.

- Tachometer (RPM)
 - Light scale
 - Monochromatic
 - Multicolor
 - Live numerical readout
- Gear
 - Live numerical readout
- Vehicle speed (mph)
 - Live numerical readout