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

Continue to back...

# 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