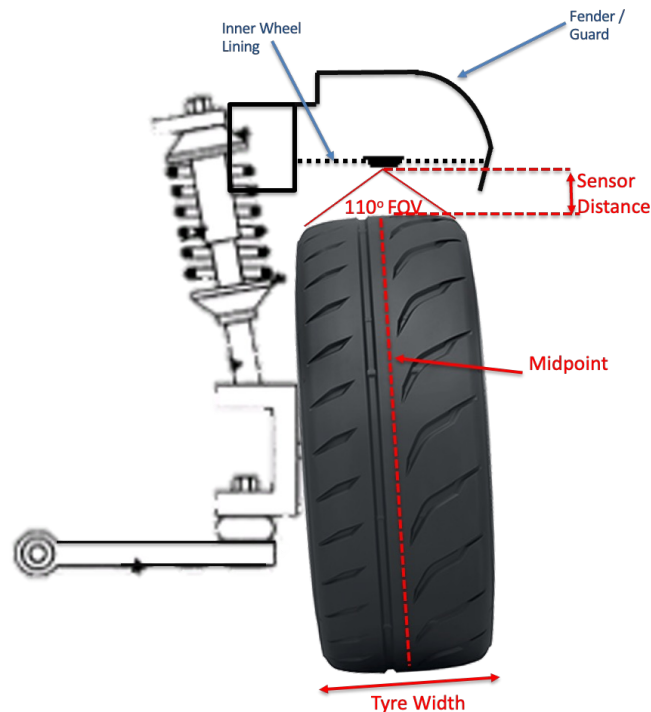


# WHEEL TURTLE

TYRE TEMPERATURE SYSTEM

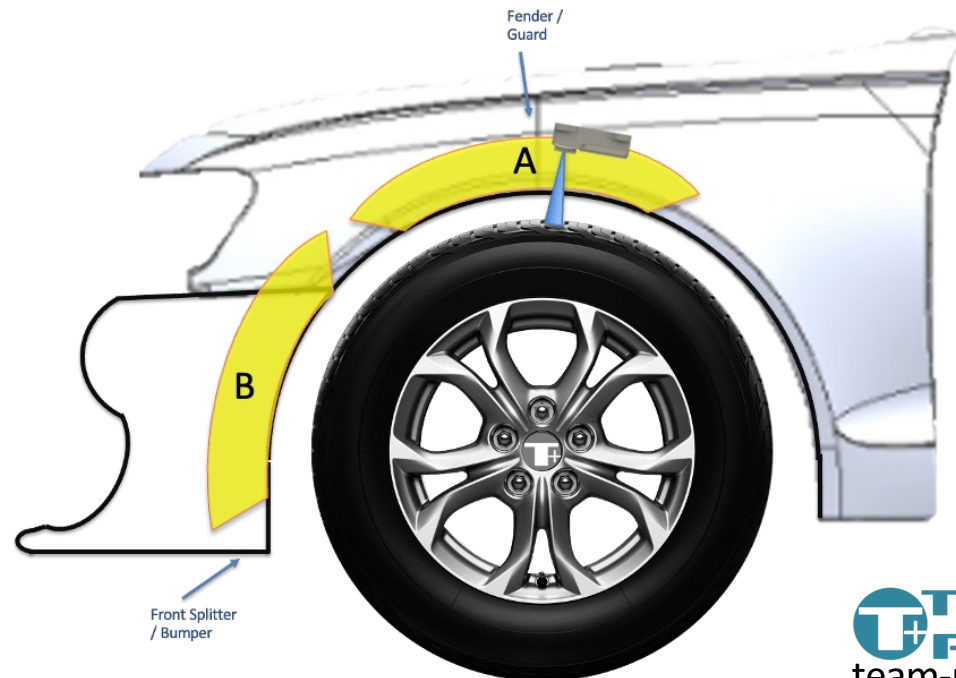
Ideal Sensor Distance =  
Tyre Width \* 0.34

Example: 295mm tyre =  
~100mm sensor distance



## FRONT WHEEL TURTLE LOCATION

1. Calculate distance needed based on tyre width
2. Mount Wheel Turtle in the wheel arch:
  - Preference is top of wheel arch to minimise wheel turn impact (zone A)
  - Alternate is front of wheel arch to capture hottest edge on wheel turn (zone B)
  - Mounting at rear of wheel arch is not recommended as will only see coldest edge on turn and more exposed to debris/damage
  - Mounting on other side of inner wheel lining with hole for sensor head can add extra protection and distance when needed



# WHEEL TURTLE

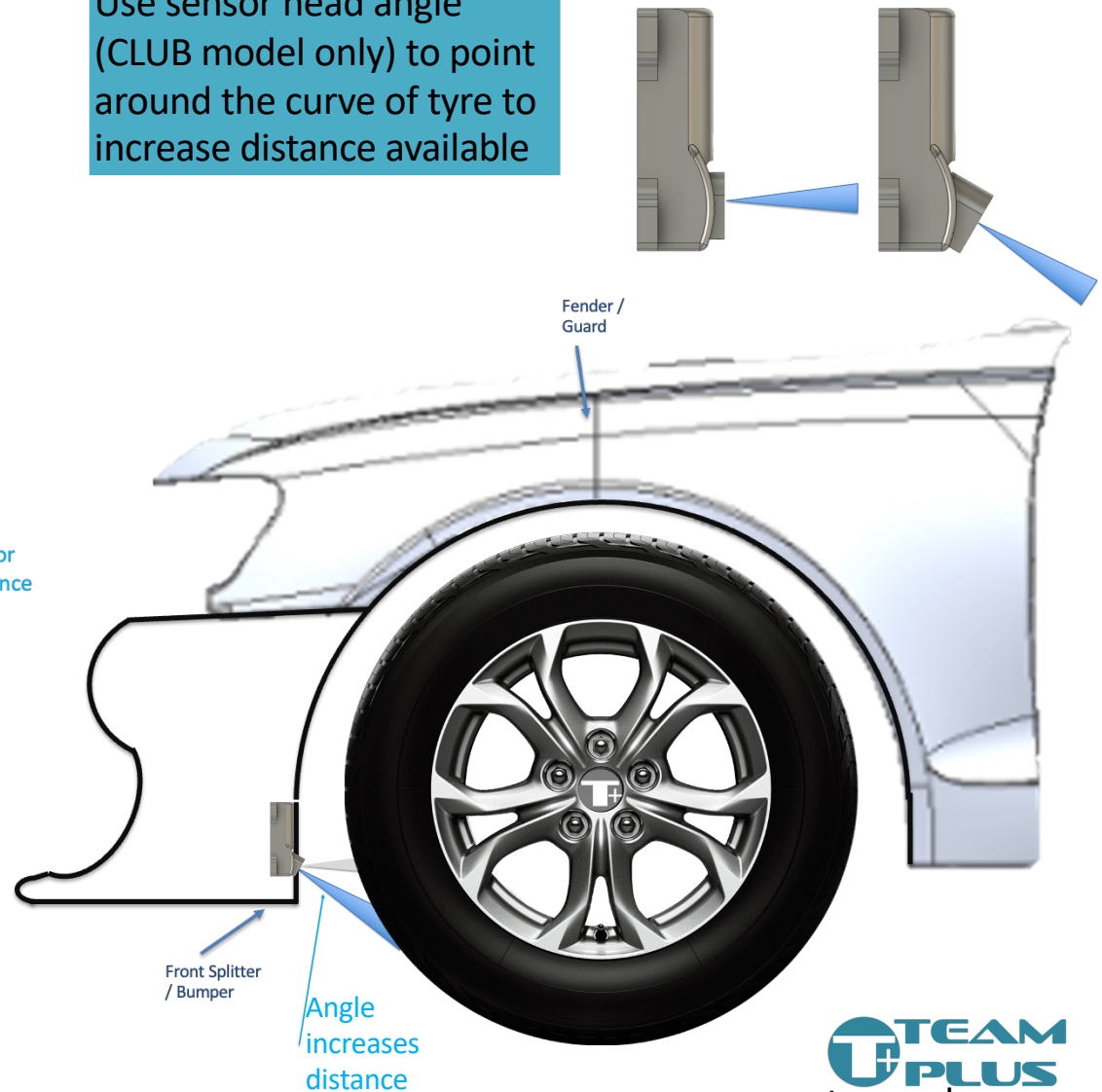
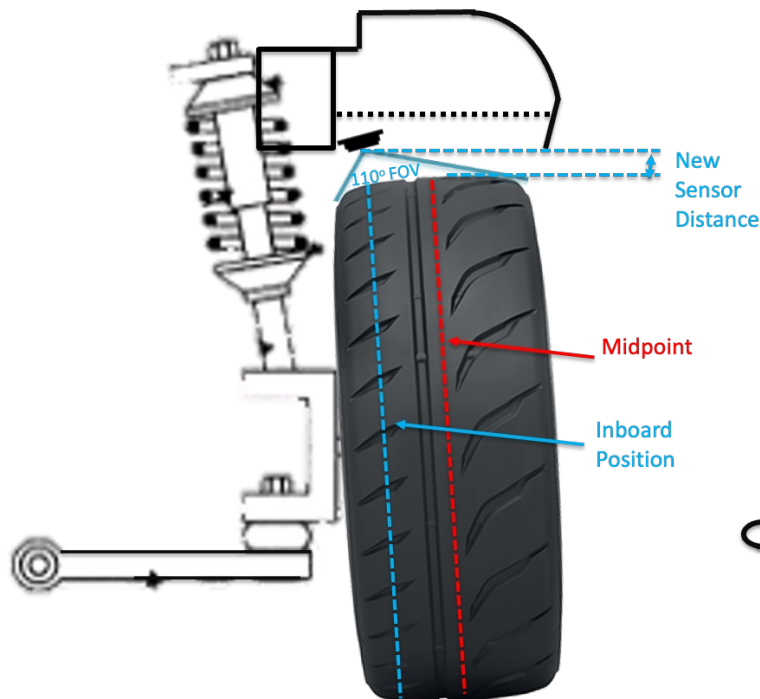
TYRE TEMPERATURE SYSTEM

## FRONT WHEEL TURTLE LOCATION

### TIPS FOR LIMITED SPACE

Mount further inboard and angle across the face significantly reduces distance from tyre needed

Use sensor head angle (CLUB model only) to point around the curve of tyre to increase distance available

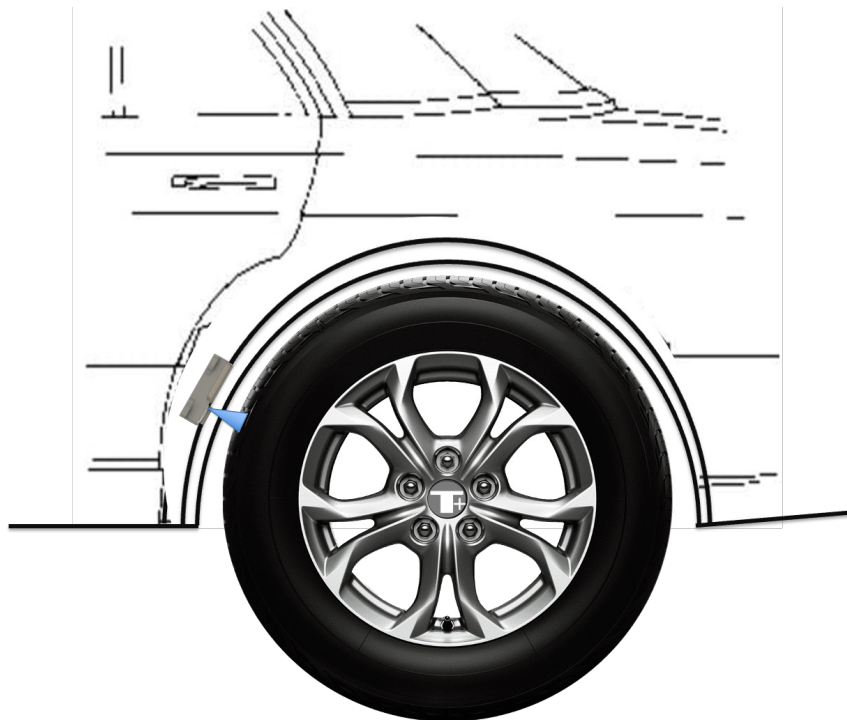


# WHEEL TURTLE

TYRE TEMPERATURE SYSTEM

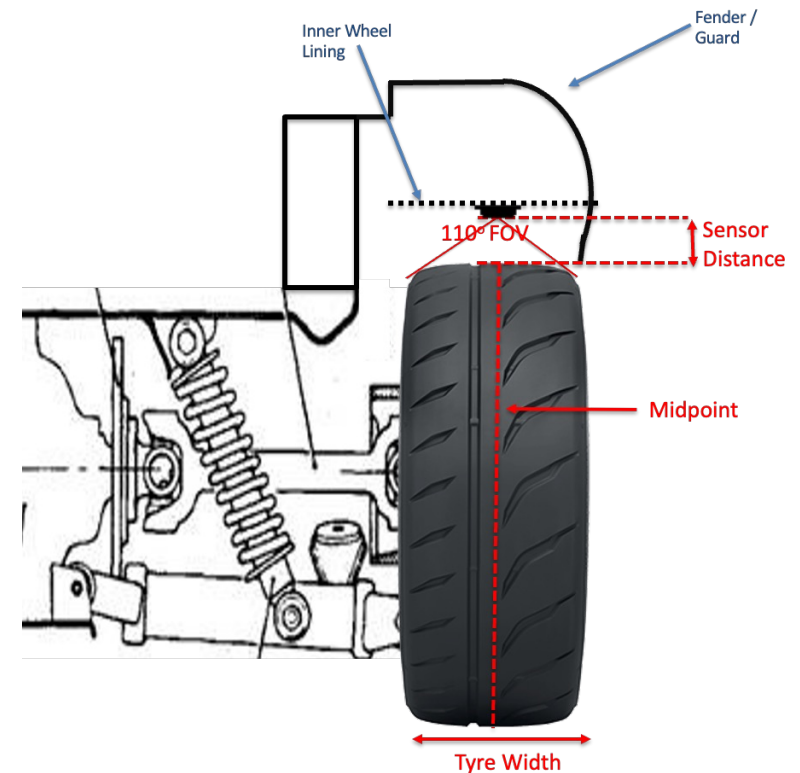
Ideal Sensor Distance =  
Tyre Width \* 0.34

Example: 295mm tyre =  
~100mm sensor distance

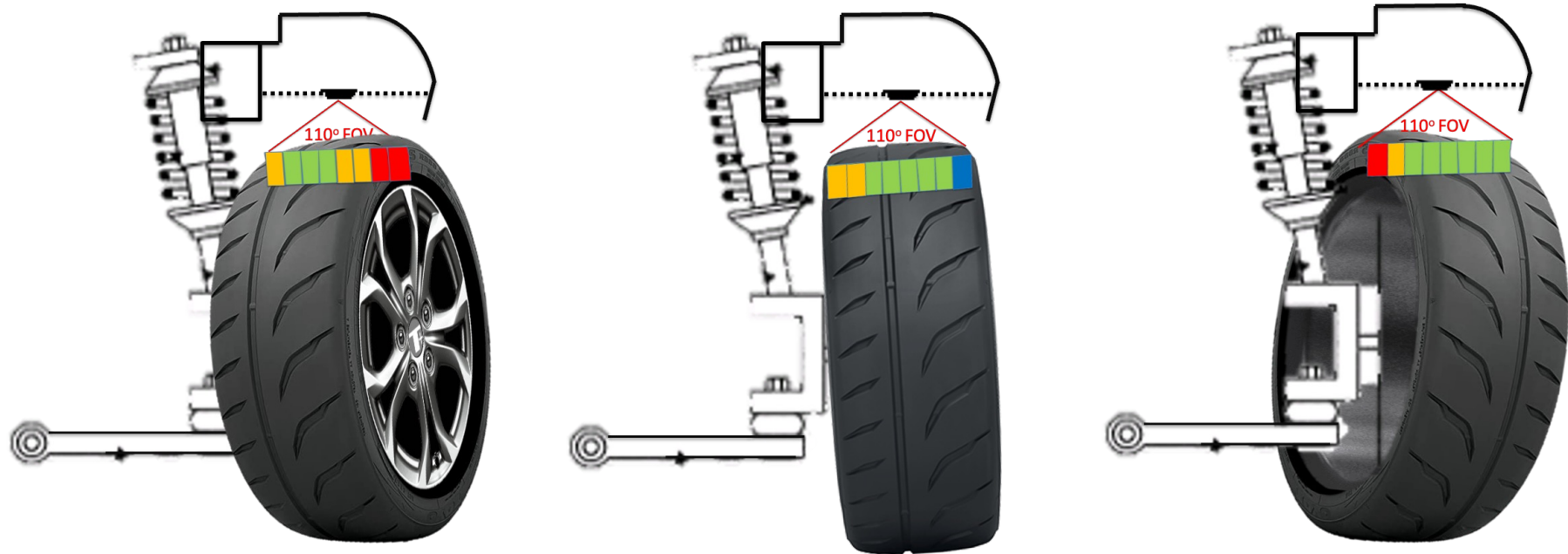


## REAR WHEEL TURTLE LOCATION

1. Calculate distance needed based on tyre width
2. Mount Wheel Turtle in the wheel arch:
  - Beware of potentially damaging debris if mounted at rear of wheel arch.
  - Align to midpoint of tyre
  - Mounting on other side of inner wheel lining with hole for sensor head can add extra protection and distance when needed

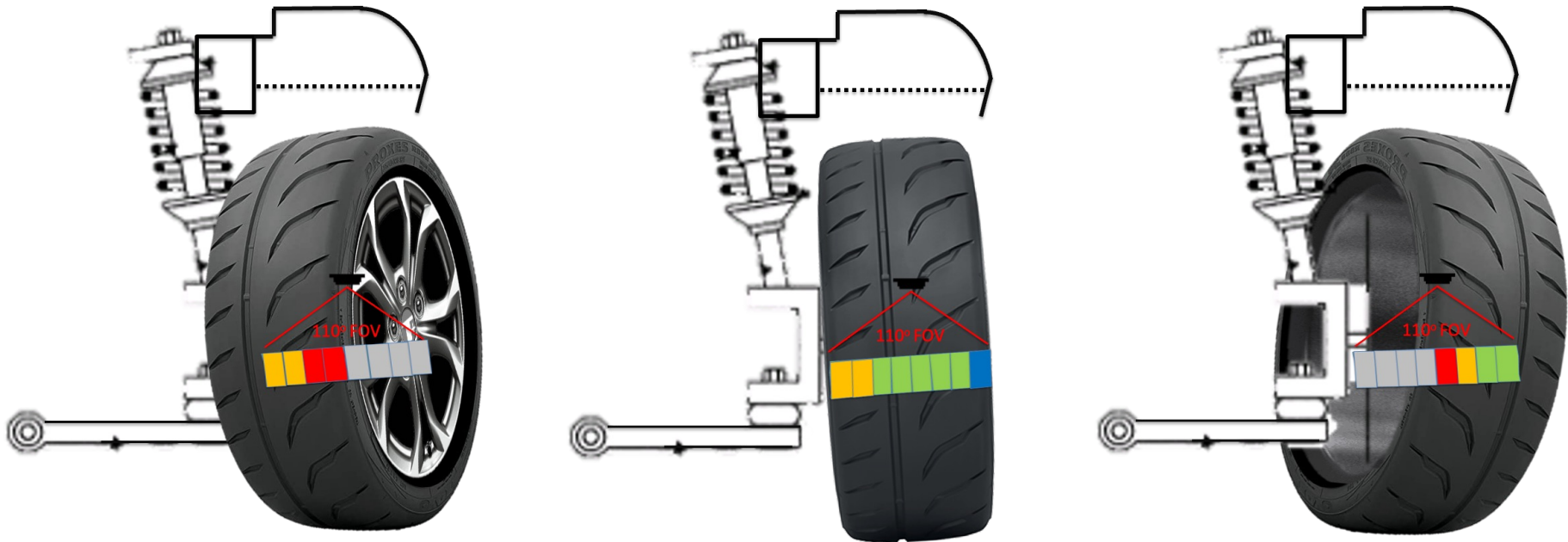


## FRONT WHEEL TURN IMPACT – TOP MOUNT



Top Mount Wheel Turtle will capture full width across range of turn.

## FRONT WHEEL TURN IMPACT – FRONT MOUNT



Front Mount Wheel Turtle will capture hottest edge during turn and miss some areas.



# WHEEL TURTLE

TYRE TEMPERATURE SYSTEM

## TURTLE LOCATION – FORMULA STUDENT SAE



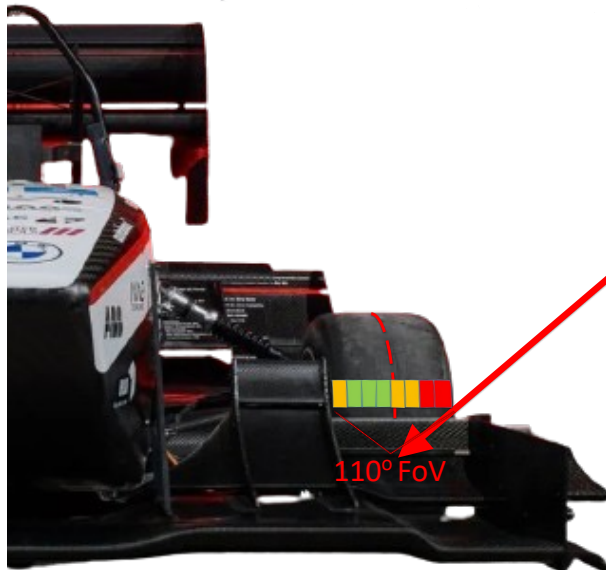
Behind Front  
Wing (preferred)

Top Front of side  
Aero

Rear of side  
Aero

**FRONT OPTIONS**

**REAR**

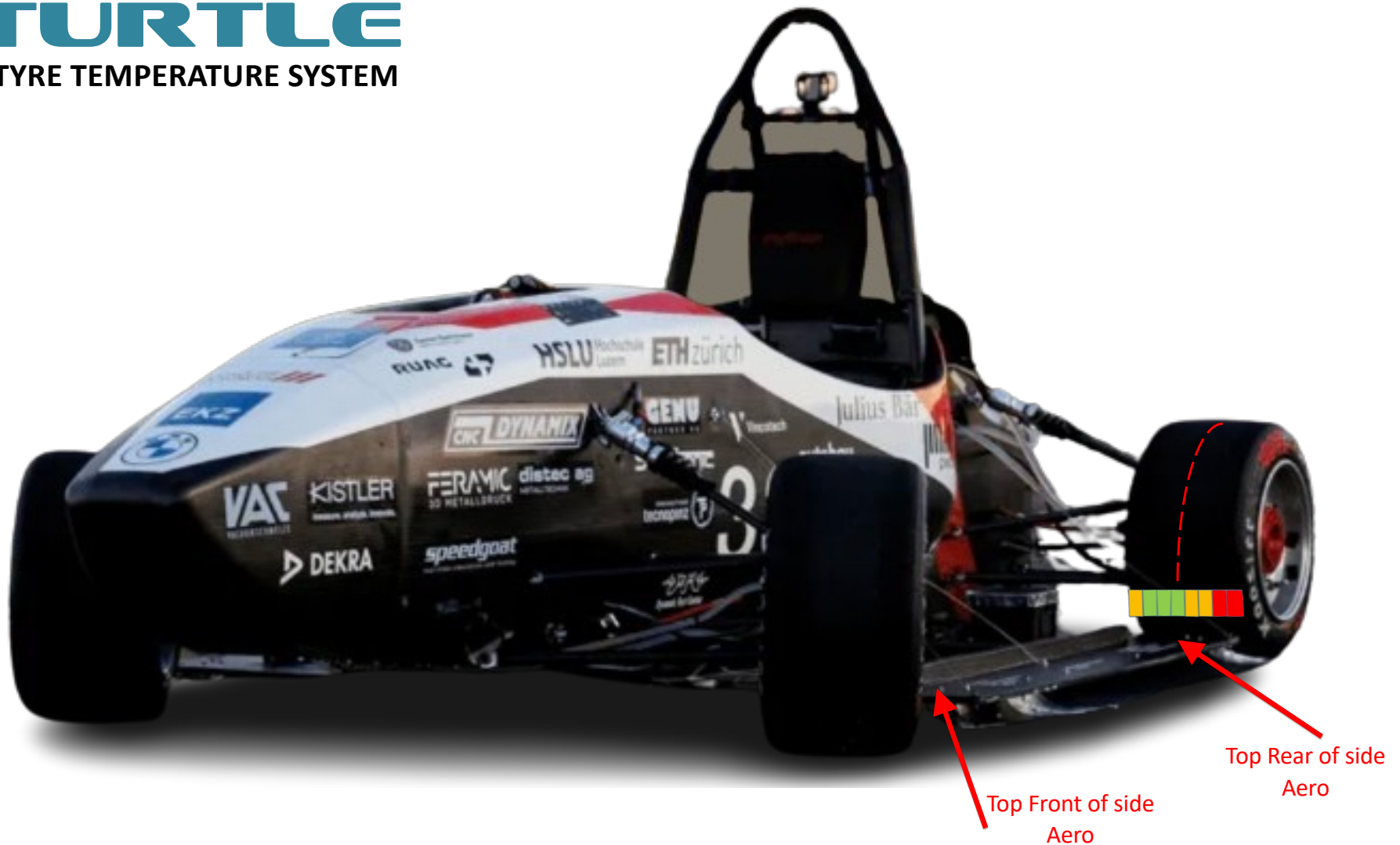


110° FoV

# WHEEL TURTLE

TYRE TEMPERATURE SYSTEM

## TURTLE LOCATION – FORMULA STUDENT SAE



# WHEEL TURTLE

TYRE TEMPERATURE SYSTEM

## TURTLE LOCATION – FORMULA STUDENT SAE

