

Car initial setup

Thursday, June 30, 2022 8:13 PM

Skid pad steady state

Var:

Mass:
In a scale to 200kilo to 320, the lap time diff is less (insert time here)

Power
-no time spent at max throttle

Brakes
-no time spent above 25% brake

Lat accel
-lat accel continues to drop lap time until a limit of 3.25.
This is an expected relationship

CD
- Negligable effect
- Min max of .00494

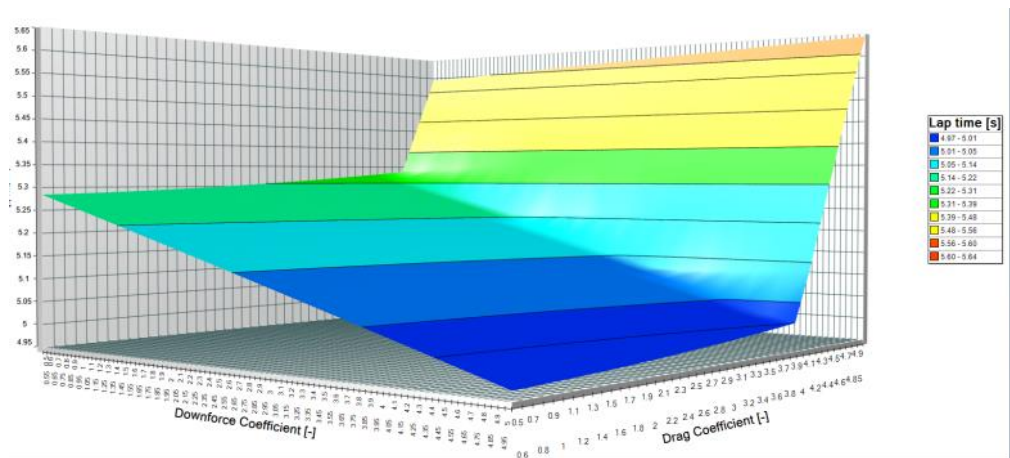
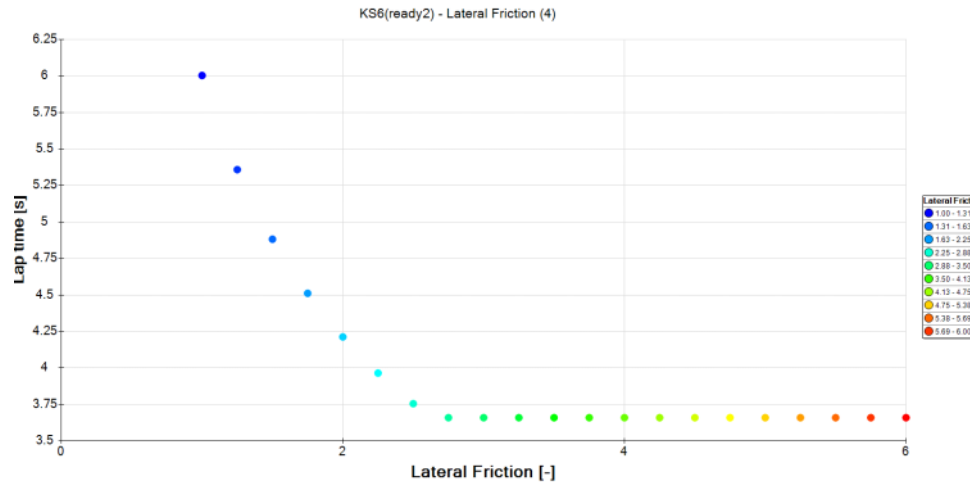
CL
-negligable
-min max too small

Aero sensitivity

We found that drag has half the time effect of downforce untill a coef of 4 where the drag exceeds the power of the unit and the times drastically increase

See chart fucker

[Get formr aero range for CD CL](#)



Accel

Tuesday, June 28, 2022 11:28 PM

Variables

- MASS
- From 200kg to 320kg lap time increases
 - Heavier=slower

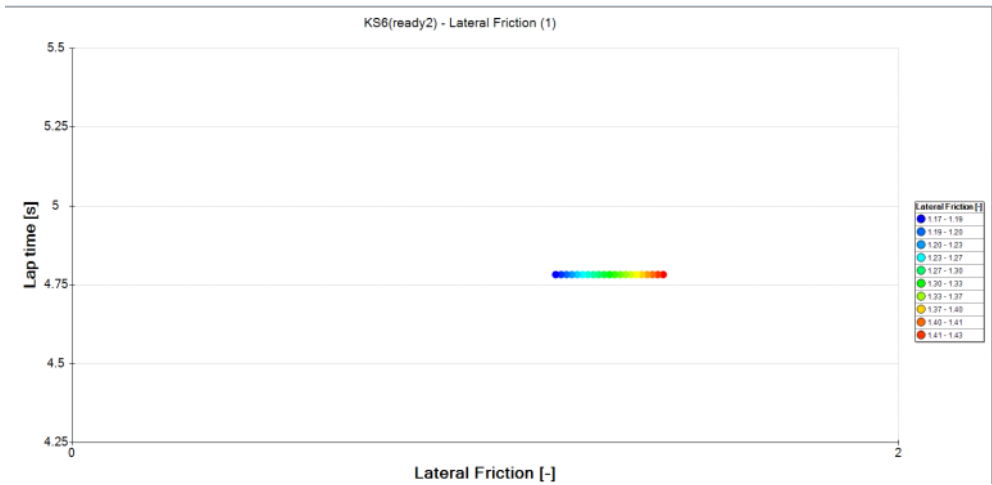
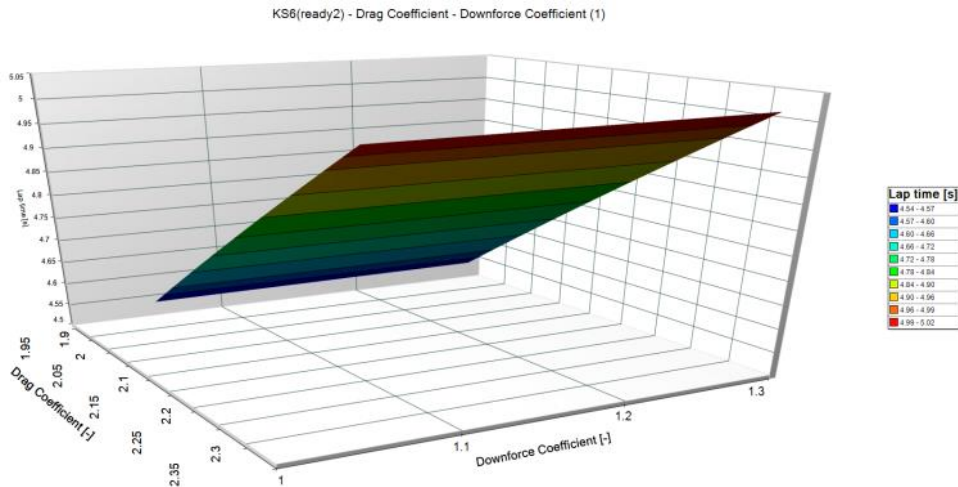
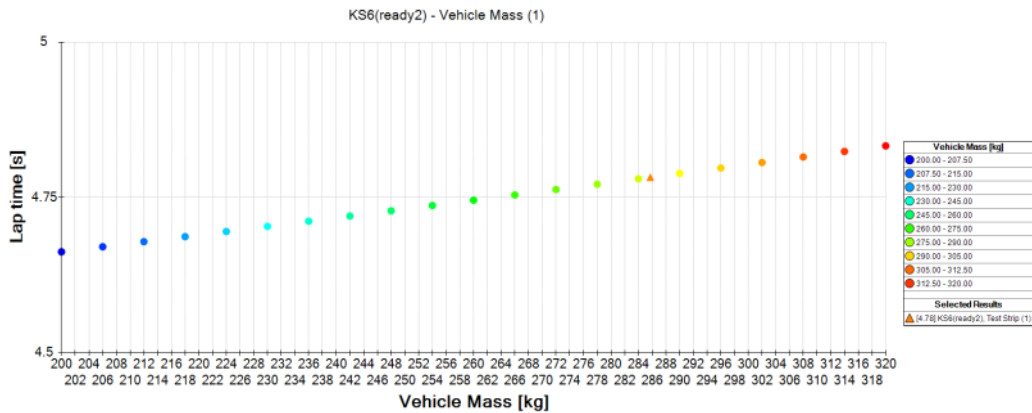
CI

CD

Aero Sensitivty

- Drag is directly correlated to lap time

Lat accel
-neglagable



Forward Path

Wednesday, July 6, 2022 2:49 AM

Given the state of the IC at competition we were able to discern lap time improvement per an event to propell us to a top 10 finish. Using these we will now analyze what parameters of the car we can improve on to achieve these goals.

Next we will supply these parameters to the sub team, they will decide the best course of action to achieve these parameters.