

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

# Racing Human-Machine Interface

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# Overview

Triton AI's autonomous racecar team requires a human-machine interface (HMI)

The HMI serves to control and monitor the autonomous vehicle (e.g. waiving a flag)



# Problems We Encountered

Our first issue was that the car was situated in Hawaii

Sensor information we required was not available

Other Triton AI cars did not have the sensors we required for our app



# Our Project (What We Did)

We created a web app as the HMI the pit crew can use to control and monitor their vehicle

Our app receives data from sensors which monitor important parameters (speed, rpm, etc.)



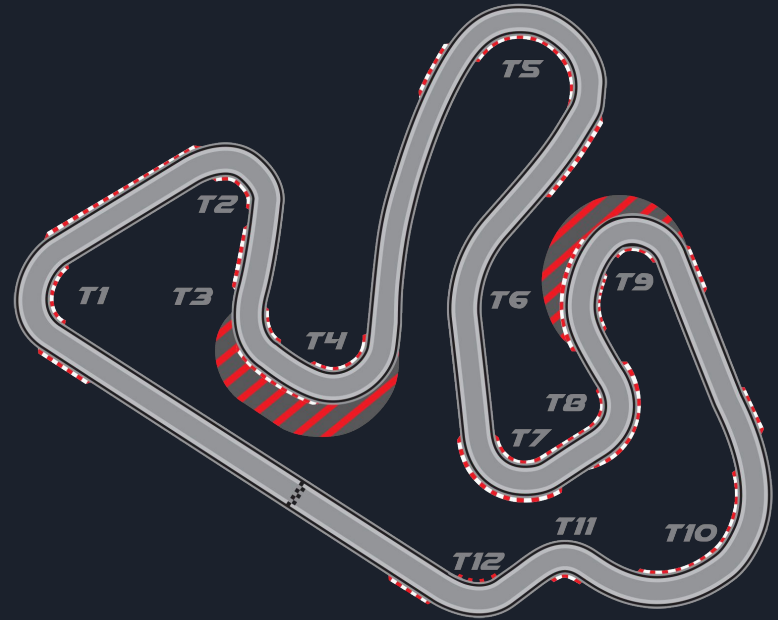
# Project Demo



# Features Not Implemented

We did not have enough time to implement a GPS tracking system for the car

Real time tracking would keep a live location of the vehicle on the HMI

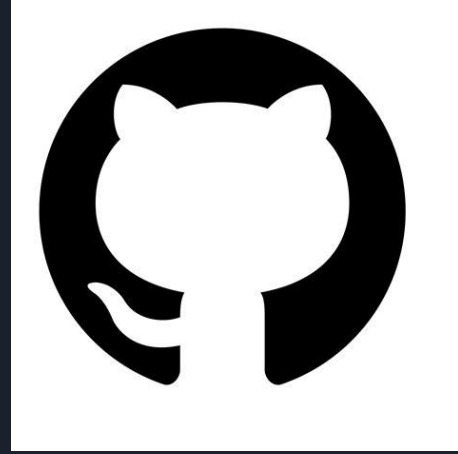




# Conclusion

Our code will be hosted on GitHub where future members of Triton AI racing teams will be able to improve on our system

We hope that our app can also be used for other autonomous vehicles such as the Go-Karts





# Q & A