Abstract:
The University of Evansville Race team is a student led organization that is dedicated to producing a car that can out perform other schools at a regional competition. To Ensure they are maximizing their teams potential a real time display of the data presented on the car can be utilized maximize performance.

Background:
Currently the race team has no way to get live data while running the car. Live data can be used to make adjustments to the car or even indicate that the car is in danger of breaking.

Design:
- Arduino – developed on a trusted platform with trusted libraries.
- Real time interface – updates data in real time.
- Map tracking – graphically updates the track updates the track.
- Replay Modes - ability to store a lap and rewind.
- Multiple sensor inputs – can output wide variety of data.
- Filtering – eliminates spikes in data.
- Wireless Streaming – Using a wireless Serial Connection Device.

Advantages:
- Cost Effective
- Re-playable
- Displays data
- Real time