

# The HUD for Everything by Rishabh Rajesh

IEEE Event  
9<sup>th</sup> Grade



# The HUD Display

- A HUD(Heads up Display) displays information without disrupting the driver
- Displays very important information
  - Speed, Range, Time, Distance travelled, RPM, etc.
- First used in aircrafts
  - For Pilots to land their fighter jet on carrier without looking away from the carrier.

# The Potential for the HUD Display

- People are now buying the HUD for their cars
- We are in the information era
- The demand for smart devices is on the upward trend
- The IoT technology increases the breadth of information the HUD can display

# What IoT can do to the HUD

- It increases the type of Information the HUD can display
  - Parking Spots
  - Nearby Fuel Stops
  - Upcoming Weather
  - Suggested Places/Attractions
  - Advanced Navigation
  - Total Smartphone integration

# What will my HUD display

- I will have information organized in a clean and spacious manner.
  - Have a little bit of information on one screen
  - If person wants different information, they would click a button to go to the next screen
  - HUD will display speed, phone notifications, range, odometer, map(choose service), Urban Services, Weather, and Smartphone Control(Voice)

# How to make this product

- Cars have all the sensors needed to display information
  - All cars have a central computer to process information
  - My product simply re-processes it into a cleaner and more informative display
- Code an app for smartphone integration and notifications

# The Value of the HUD in the Public

- People can use this to ease their mind while driving
  - Makes trips easier
  - Makes trips comfortable and ensuring
- The information the HUD displays, makes the road safer
  - Makes drivers informed of what is ahead

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