

Accident Prevention System on 2 Wheelers

Healthcare and Medication

- DATA PyRATES

Features

- Indication using a dial system, the speed and angle of turning depending upon the speed and direction of turn warns to the driver if it exceeds the required turning angle
- Displays the required speed to make the turn
- Monitoring deceleration of a vehicle to predict accident
- Holds Old medical history of driver and passengers
- Emergency alert to close friends / relatives
- Service vehicle notification and vehicle stats
- Automatic Emergency calling

Indication using dial system

The input of degree of inclination with road will be measured using a 3 axis MEM gyro sensor (MPU6050).

And the speed of the wheel can be measured by Photoelectric speed sensor.

Required angle of bending will be calculated by speed of vehicle and the difference between the current bending angle and required bending angle will be displayed on the dial.



Tachometer



Accelerometer
and
Gyroscope

Monitoring deceleration of a vehicle to predict accident

- We can even use the MPU6050 to monitor the deceleration on the vehicle. If the amount of deceleration exceeds a threshold value then the accident has occurred.
- In such case the IOT device inside the vehicle should immediately contact medical assistance and send them the old medical record of the driver and current location.
- We can even send a emergency message automatically to close friends / family.



Flow Chart

