

Vehicle Accident Alert system

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Description

As in today's world accidents are more common on highways and the death that happens by no communication accidents are not negligible. So we developed a project that will detect whether the accident happened and get the data from the sensors about the vehicle which indulge in accident and then store it in the database which can be then analyzed and calculate the risk factor and alert the ambulance driver based on that factor .

Components Used

Arduino UNO

Vibration sensor

Flame Sensor

Node Mcu

Software used

Arduino IDE

Database

Firebase

Accident alert system features

- Using sensors to get the data.
- storing the data in the database.
- Location of the vehicle.
- Detecting the risk level.
- Data can be retrieved for further purpose

How it works

When an accident occurs the Arduino board get the data like vibration, flame status, smoke occurrence from the sensor and send it to the Node MCU, and then the Node MCU store the data in the Firebase's Realtime Database via Internet

Conclusion

This project is useful for people when they are met with an accident and they have no source to contact and to investigate how the accident happens and calculate the risk factor .Our project will be useful in such critic situation