

# Accident management system using GNSS

Presented by: Pratichhya Sharma

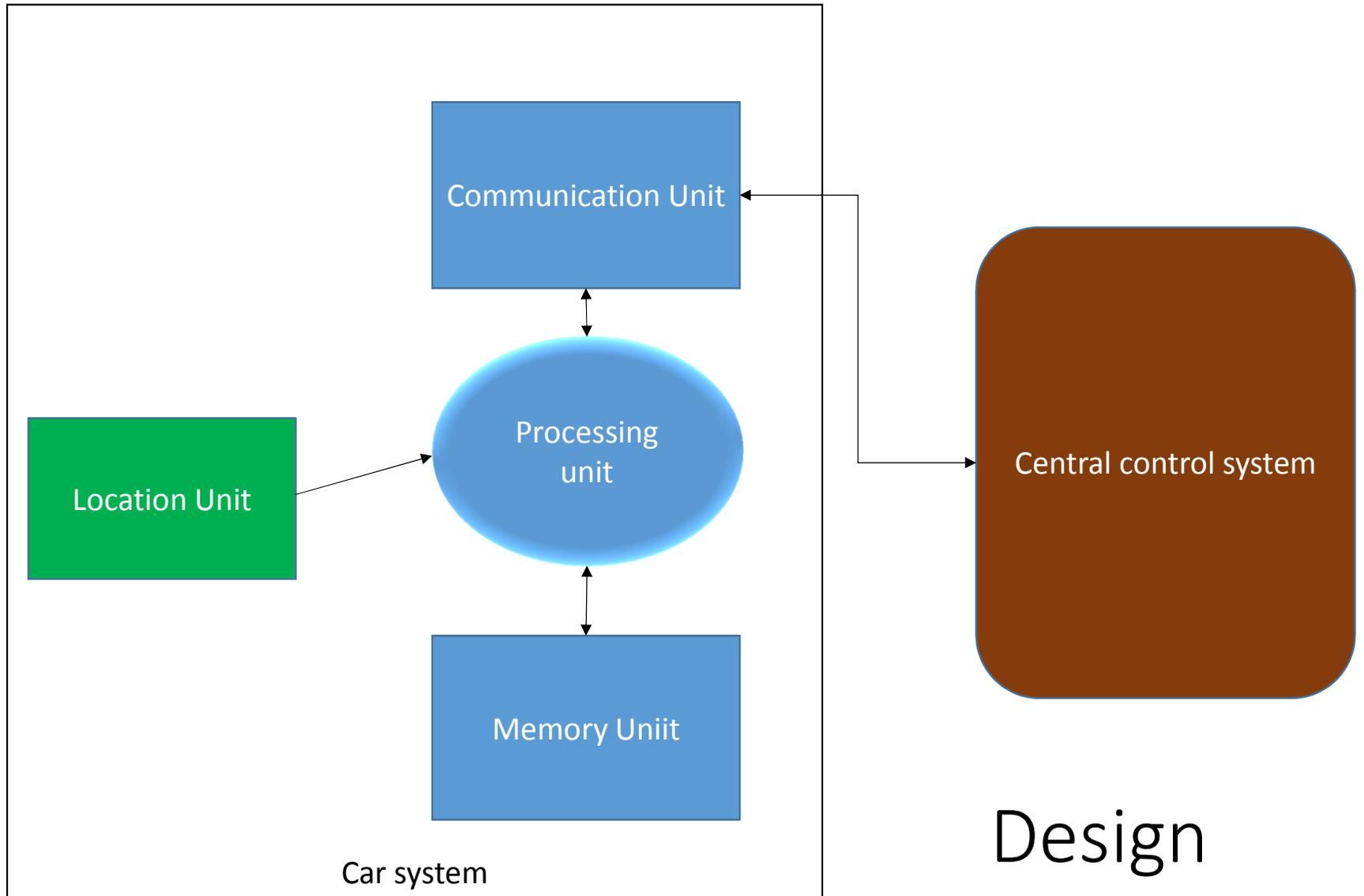
# Objectives:

- To monitor the vehicles accidents.
- To find out the location of vehicle that has been stolen.
- To map or monitor how the vehicle was travelling at that time.
- To monitor approx. velocity and direction.
- To find out actual witnesses.

# Factsheet

- Nearly **1.3 million** people die in road crashes each year, on average 3,287 deaths a day.

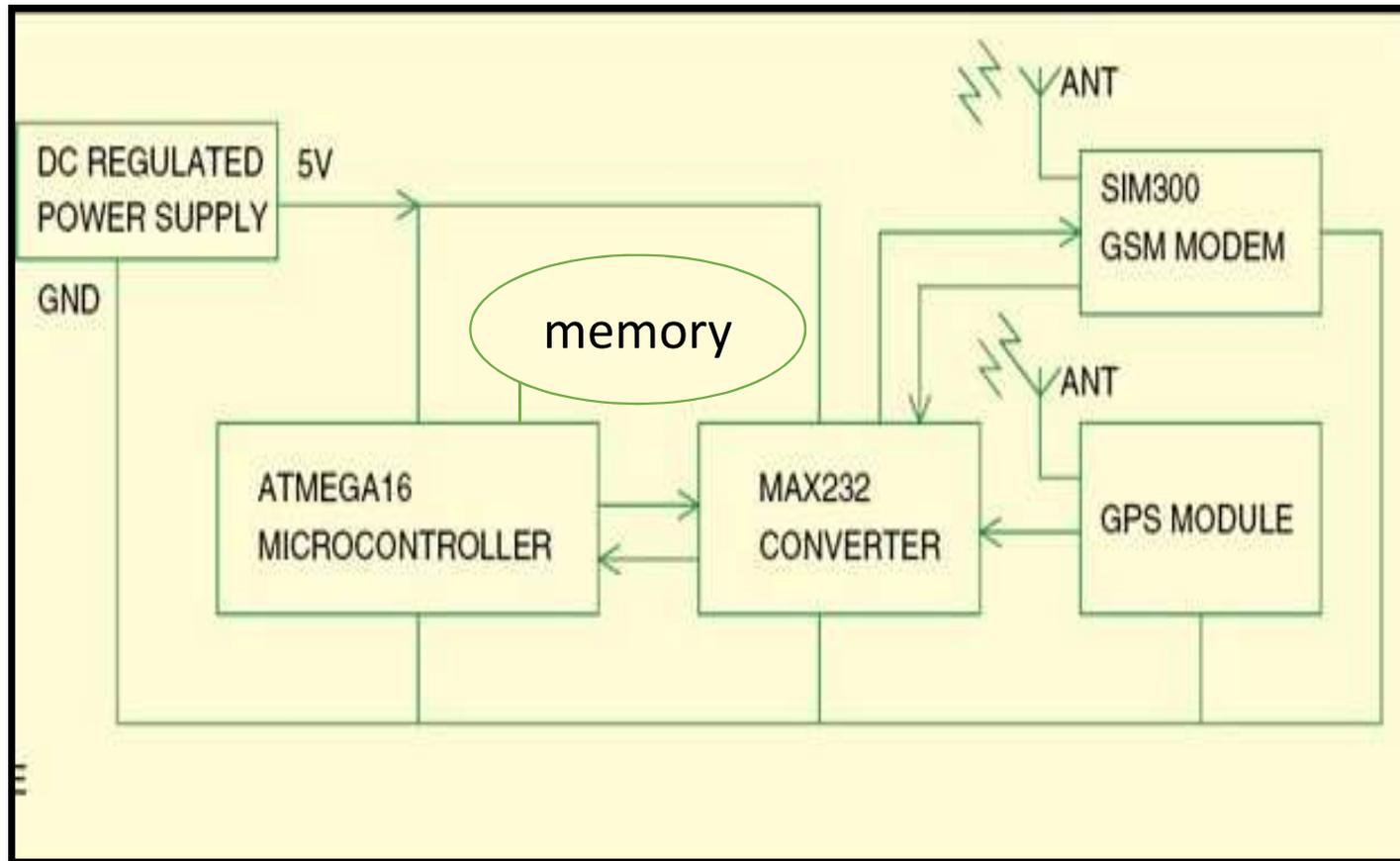




# Methodology



# Circuit



# Data collection

- As the vehicle starts its position is recorded in every 30 sec.
- velocity can be obtained using location and time stamps.

$$V=(p1-p2)/2$$

# Data monitoring

- Data is basically saved on the device but can be fetched from central system using communication module.
- It is highly secured as data can be obtained from central control unit by using a special code.
- All data are basically saved on the device with large storage capacity so no tension for the big data.

# Data visualization

9/24/2016 2:23:42 AM

# Accuracy

- Same Environmental condition so the relative position have similar accuracy and the error is considered to be accumulated in same direction.
- We can also use RTKs
- We can use the GPS+INS technology.
- Data can be manually processed later.

# Conclusion

This system might be very much helpful in monitoring accidents using GNSS.

Thank You