GOVERNMENT COLLEGE OF ENGINEERING KANNUR

MINI PROJECT

ACCIDENT DECTECTION AND SMART ALERT SYSTEM FOR VEHICLES

Submitted by

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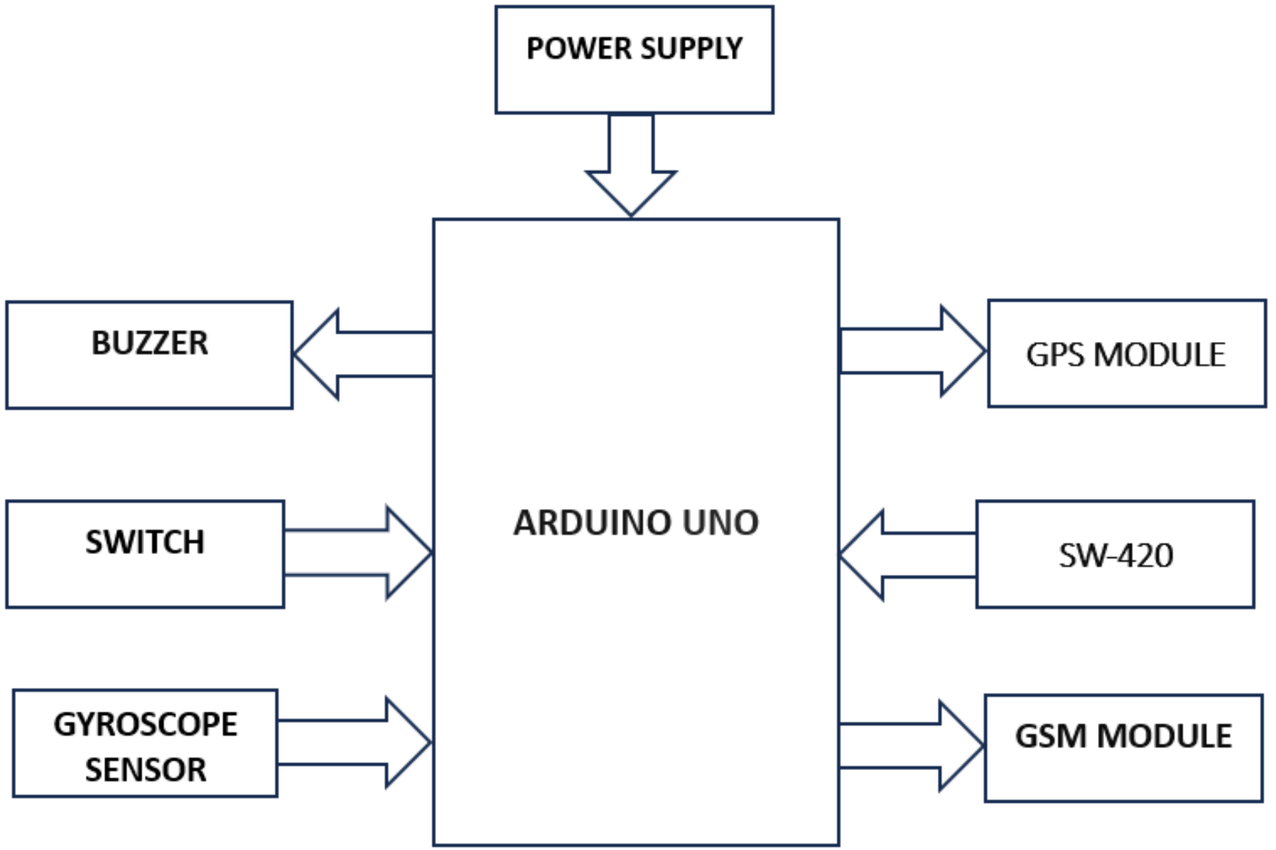
CONTENTS

INTRODUCTON

- In the present time, road traffic accidents have become a global concern all over the world.
- Road traffic accidents are considered as one of the prominent reasons for the reduction of life period, loss of lives, properties, and time.
- We propose to develop an accident detection system to detect accidents on the road. Intelligent accident detection involves location tracking as well as notification systems that detect the accidents immediately through the GPS location.
- accident detection helps in tracking the accident location and informing the police and hospital without the involvement of humans.

BLOCK DIAGRAM



Hardware

- Arduino Uno (ATmega328P microcontroller)
- GSM Module
- GPS Module
- Vibration sensor
- Gyroscope Sensor

Software

- Arduino IDE
- C/C++ Language

ESTIMATED COST

COMPONENTS	COST (₹)
Arduino Uno	₹ 2,575
GSM Module	₹ 685
GPS Module	₹ 527
Vibration sensor	₹ 239
Gyroscope Sensor	₹ 256
Estimated Cost (approx)	₹ 4,500

TIMELINE

FEB 2024

- Abstract Submission
- **Zeroth review presentation**

MARCH 2024

- Purchase of Components
- Completion of Designs
- Circuit by Circuit Completion of project
- Prototype

APRIL 2024

- Working Model Completion
- Final presention and Demonstration

THANK YOU