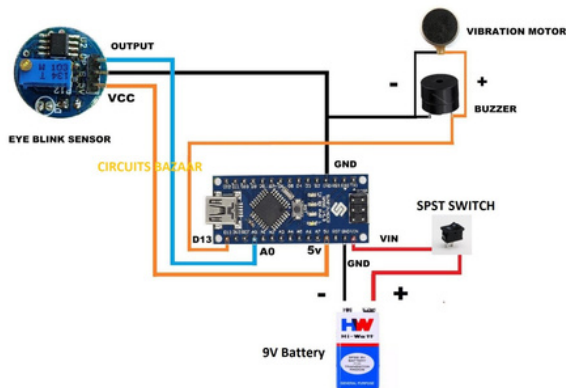# SMART GOGGLES

BECAUSE OF THE TREMENDOUS INCREASE IN TRAFFIC DAY BY DAY ROAD ACCIDENTS ARE INCREASING AT A HUGE SCALE. ACCIDENTS DUE TO DRIVER DROWSINESS CAN BE PREVENTED USING EYE BLINK SENSORS. THERE ARE TWO MAIN COMPONENTS HERE IN THIS PROJECT. FIRST IS ARDUINO NANO WHICH IS THE HEART OF THE PROJECT. AND SECOND IS THE EYE BLINK SENSOR.

The driver has to wear the eye blink sensor frame throughout the course of driving and the eye blink has to be for some particular amount of seconds to detect drowsiness or sleep. Any random changes in steering movement lead to fatal accidents. But this project will avoid accidents. The outcome is that the vibrator attached to the eye blink sensor's frame vibrates if the driver falls asleep and a buzzer will beep for sound indication. So there is audio and vibration indication for the driver if he falls asleep.

CONCLUSION:

ROAD ACCIDENTS BECAME A MATTER OF CONCERN DUE TO THE HUGE INCREASE IN TRAFFIC. THE PRIMARY CAUSE OF ACCIDENTS IS DUE TO THE DROWSINESS OF DRIVERS IN THE NIGHTTIME. FATIGUE AND DROWSINESS ARE SOME OF THE LEADING CAUSES OF MAJOR ACCIDENTS ON HIGHWAYS. THE ONLY SOLUTION TO THIS PROBLEM IS DETECTING THE DROWSINESS AND ALERTING THE DRIVER.

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