DROWSINESS DETECTION MODULE

ABSTRACT

The Timely detection of drowsiness in commercial motor vehicle (CMV) operations is necessary to reduce drowsiness related CMV crashes. This Module can be used to detect if a user is sleep deprived or not elegantly. The user is required to wear a modified safety helmet that does not hinder the user's activities.

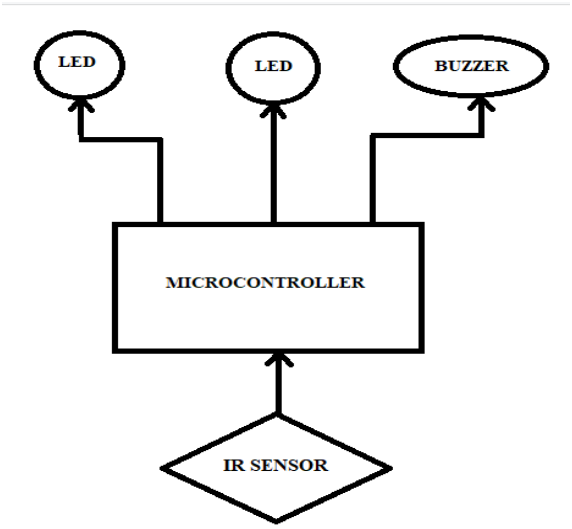
OBJECTIVES

The Main objective of this module is the recurrent detection of eye blinks of user and alert the user about dizziness and induced drowsiness due to lethargy.

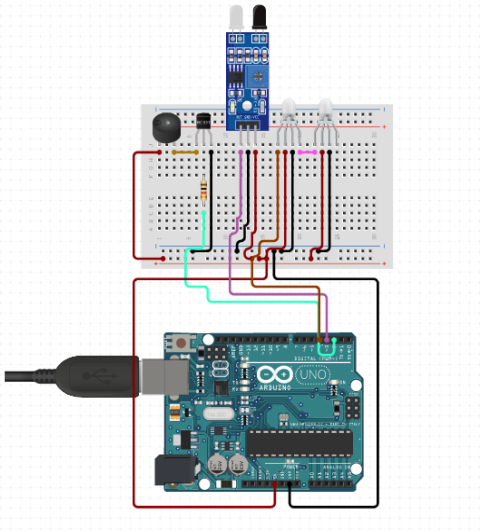
METHODOLOGY

- Detection of blink rate and blink delays using IR rays.
- The drowsiness is detected by reduction in blink rate.
- Upon detection of drowsiness the buzzer will go high.
- By this high intense sound, the user is made conscious.

BLOCK DIAGRAM



WORKING MODEL



OUTCOMES

- This module provides wide application in long distance traveling, for construction and industrial workers.
- It helps in preventing accidents caused due to drowsiness.

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