Deccan Education Society's,
Fergusson College (Autonomous),Pune.

"In House and Poster and Project Exhibition 2024"

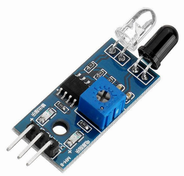
Project Title: Antisleep Glasses

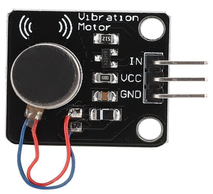
Abstract

With the predictions of World Health Organization (WHO), the number of deaths due to traffic accidents will be around 2 million within less than 15 years. Researchers nowadays are paying more attention to how to help in preventing traffic accidents and lower the number of occurred fatalities. So the purpose of this project is an attempt to prevent traffic accidents due to fatigue or sleepiness. In this report, a portable and low cost device for prevention of accidents that happen because of sleepiness or fatigue.

Introduction

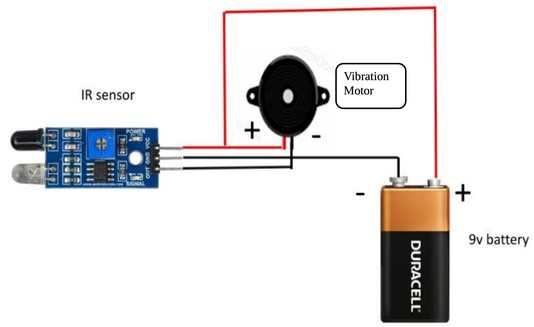
In our fast-paced lives, staying alert and focused is crucial, especially in activities like driving, working, or studying. Unfortunately, fatigue can sneak up on us, leading to accidents, mistakes, or reduced productivity. To tackle this issue, we're introducing a new project An "**Antisleep Glasses**" equipped with infrared (IR) sensors and vibration motor. These glasses are designed to detect signs of drowsiness early on and alert the wearer, helping them stay awake and attentive when it matters most.





Working Principle

- The anti-sleep glasses project works by using an infrared (IR) sensor to detect the movements of the wearer's eyelids.
- When someone starts to feel drowsy and their eyelids begin to droop, the IR sensor notices this change. Once detected, the glasses will send a signal to a vibration motot, which will then vibrate to alert the wearer that they are falling asleep.
- This helps to prevent accidents caused by drowsiness while driving or operating machinery.
- Overall, the IR sensor acts as a vigilant eye, keeping track of the wearer's alertness and providing timely warnings to stay awake and focused.



Conclusion

The Anti Sleep Glasses for Drivers is a crucial safety tool for preventing drowsy driving accidents. This device uses advanced sensors to monitor a driver's condition, detecting early signs of fatigue through eye movement changes.

So it is most benefitial and advanced model for bike riding at night time.

Applications

- Anti sleep glasses can be used during bike riding ,car driving at nights.
- Bike riders can worn this glasses inside the helmet for long drives.
- Students can use this device while studying.

Acknowledgements

We would like to thank all our teachers and staff members for supporting us as they gave us constant motivation which helped us complete our project in time..

From- Prajakta killedar
Aaditya Pawale