ANTI SLEEPING GLASSES

INTRODUCTION

Anti-sleeping glasses are designed to help individuals stay awake and alert by reducing fatigue. Using features like blue light filtering and eye movement tracking, these glasses improve focus, making them ideal for drivers, professionals, and anyone needing sustained attention.

OBJECTIVE

The objective of anti-sleeping glasses is to improve alertness and prevent drowsiness by reducing fatigue. Through features like blue light filtering and eye-tracking, they help maintain focus and concentration, supporting safety and productivity without relying on stimulants.

COMPONENTS USED

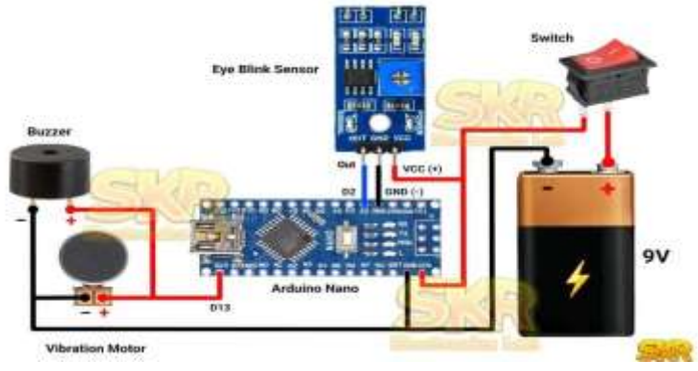
1. Glasses Frame
2. Lenses
3. Battery
4. Sensors
5. Buzzer
6. LED
7. Wires

METHODOLOGY

The parts are assembled and the connections are made. The microcontroller is coded to rotate the servo motors about a certain angle when a movement is seen in the joysticks.
Arduino is an electronic open-source platform enabling users to create interactive and useful electronic projects. It serves as the prime component of the project which will control everything else. The joystick module returns the current X and Y axis co ordinates of the pointer. This is processed in the Arduino to increment/decrement a certain value of the servo motors which will perform the required action.

OVERVIEW

CIRCUIT DIAGRAM



RESULTS

The photo of anti-sleeping glasses showcases the wearable device equipped with sensors, lenses, and alert mechanisms designed to monitor and prevent drowsiness.

APPLICATIONS

1. Long-distance Driving
2. Medical Professionals
3. Shift Workers
4. Students

CONCLUSION

Anti-sleeping glasses are designed to combat fatigue by monitoring eye movement and blinking. When drowsiness is detected, they alert the wearer with vibrations, buzzing, or LED lights. Ideal for long hours of driving, work, or study, they help users stay focused and alert without stimulants.

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