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Product Description

ABSTRACT:

Creating an anti-sleep alarm with driver safety using an Arduino Uno involves building a system that can detect signs of drowsiness or inattentiveness in a driver and alert them to stay awake and focused. One common approach is to monitor the driver's eye movements and sound an alarm if signs of fatigue are detected. Here's a simplified overview of how you can create such a system

INTRODUCTION:

In an era where long commutes and extended road trips have become a common part of our lives, the issue of driver fatigue and drowsiness is a significant concern. Drowsy driving can lead to accidents with serious consequences. To address this critical safety concern, we have developed an Anti-Sleep Alarm system using an Arduino Uno SMD, an eye blink sensor, a 5V relay module, a BO motor, wheels, a buzzer, a 1-watt red LED, a 9V SMPS, and a 9V battery.

AIM:

The primary objective of this project is to create a robust and cost-effective system that detects signs of drowsiness or inattention in a driver and promptly alerts them to stay awake and focused. The Anti-Sleep Alarm system is designed to enhance driver safety during long journeys and late-night drives.

Download Free Project Synopsis

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Product Description

Parking Lot Gate Controller with Capacity Counter using 7 Segment Display / slot based parking lot

INTRODUCTION:

A parking lot gate controller using Arduino, a 7-segment display, and a servo motor can be built to manage the opening and closing of a parking lot gate and display relevant information. The system can include features like a numeric display for parking space availability for the gate closure. The aim of this project is to design and build a prototype of an automated parking system which will show the number of parking spaces left inside the parking lot. It will have a pre-installed number of maximum cars that can be parked. A conduction sensor will count the entry and exit of each car and open the barricade for the entry and exit. The entry and exit system can how ever be chosen. A display on the monitor outside the parking lot will show how many cars can still be parking inside the parking lot. In this project, 8 parking spaces have been allotted with only one entry/exit door.

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Working Video

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