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IoT based Smart U-Turn Vehicle Accident Prevention System

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Abstract:

Unintentional deaths occur at a very high rate in developing countries. Curved roads have significantly more fatalities than straight roads. This occurs mainly on U-turns, hairpin turns, and narrow mountain roads. Drivers in this position cannot see the vehicle approaching from the opposite direction. As a result, thousands of people are killed in car accidents every year. The best way to avoid further accidents is to alert the car driver approaching from the side. Place the ultrasonic range detection sensor on one side of the road before the bend and the light indicator system on the opposite side after the bend. When a vehicle approaches from afar, an ultrasonic sensor on one side of the road sends a signal to the other side of the road via a light system. In response to a warning, the driver may stop the car until the other vehicle has passed. A buzzer will also be used to warn the driver of the car that is approaching.

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Contents

I. Introduction

The Internet of Things (IoT) gives each electrical device, piece of machinery, and other common item a unique identification number (UIDs). Data can be automatically transmitted from one device to another via a network with the help of the Internet of Things. The Internet of Things is propelled forward by the expansion of internet-based services. Tools and instruments fall into this category of equipment. These objects can now collect and share information via a network without the