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ABSTRACT

Blind curves are one of the leading causes of road accidents. Vehicles speeding along a curve are not aware of the presence of vehicles coming from the other direction. Here, a system is proposed to alert drivers going around a blind curve to the presence of oncoming vehicles. 2 poles are erected on either side of the curve, bearing cameras, red and green LED lights and piezoelectric buzzers. They are connected to a Raspberry Pi. The live video feed from the cameras is processed to detect the presence of vehicles. If vehicles are approaching on both sides of the curve, the buzzers and red lights are activated, thus alerting the drivers of the vehicle to slow down. Then the green LED is activated on one side to allow one vehicle to move forward. After it passes, the other vehicle is allowed to move by activating the green LED on the other side. Red LED is reactivated on the previous side, to stop any vehicles that were behind the first vehicle. After all vehicles pass, all LEDs are deactivated.

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