

# Smart Blind Curve Accident Prevention System

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**Abstract:** *Blind curves kill. Drivers enter too fast, meet oncoming traffic too late, swerve into ditches or head-on collisions. We built something to shout before impact. Ultrasonic sensors watch one side, infrared the other—cheap, weather-tolerant, no camera privacy headaches. Detect vehicle approaching, ping opposite unit wirelessly, flash LEDs and scream buzzer at the other driver. Seconds of warning, sometimes enough to brake, sometimes enough to survive. No central server, no cloud dependency, no subscription. Two boxes talking directly, solar powered, mounted on poles. Not elegant. Functional. Lives matter more than specs.*

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