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Automatic Vehicle Speed Control in Public Zone

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Abstract: *The project "Automatic Vehicle Speed Control in Public Zone" focuses on improving road safety by automatically controlling vehicle speed in sensitive areas such as school zones, hospital areas, residential streets, and accident-prone regions. The system uses RFID technology to detect restricted zones and an Arduino-based embedded system to automatically limit vehicle speed without depending on driver awareness. An ultrasonic sensor is used for obstacle detection, while a buzzer and LCD provide alerts and information. The proposed solution reduces accidents caused by overspeeding, protects pedestrians, and enhances public safety. The system is cost-effective, reliable, and suitable for smart city applications.*

Keywords: *Automatic Speed Control, RFID Technology, Arduino Uno, Embedded System, Road Safety, Public Zones, Ultrasonic Sensor, Smart Transportation, Accident Prevention, Intelligent Traffic System*

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