

Real-Time Vehicle Over-Speed and High-Intensity Headlight Detection System for Night-Time Accident Prevention

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Abstract: *This integrating speed sensing, light intensity detection, RFID-based vehicle identification, GPS geo-tagging, and LoRa wireless communication. The system detects over speed and high-intensity headlight conditions and records time-stamped geo-location data using GPS. The event data is transmitted using LoRa to a monitoring station, where a Python-based dashboard displays real-time tracking and violation logs. The proposed system demonstrates low-power, long-range communication suitable for scalable smart city deployment.*

Keywords: LoRa, RFID, GPS, Vehicle Tracking, Geo-Tagging, Time Stamping, Over speed Detection, High-Intensity Headlight Detection IoT Monitoring

