

EDR (Event Data Recorder) in Vehicles using IOT

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Abstract: *The increasing integration of Electronic Control Units (ECUs) in modern vehicles has paved the way for sophisticated in-vehicle monitoring and diagnostics systems, giving rise to the concept of Event-Driven Recording (EDR). EDR in vehicles involves the continuous capture and storage of critical data related to various events, such as collisions, sudden accelerations, or system malfunctions. This data, often collected from multiple sensors and modules within the vehicle, serves as a crucial tool for post-incident analysis, aiding in the reconstruction of events leading up to and during accidents. EDR not only provides valuable insights for accident investigation but also plays a pivotal role in enhancing vehicle safety by facilitating the identification of potential design flaws and contributing to the development of more robust safety features.*

Keywords: Arduino, Black box, GPS, GSM, IoT, Vehicular Electronics, Blackbox, accident prevention, Prevention, Remedial, VANE

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