

J.S. Held Accident Reconstruction Experts Publish Article Based on Technical Paper Published in SAE International

J.S. Held technical experts harness vehicle intelligence contained within infotainment, telematics, and advanced driver assistance systems that provide accident reconstruction experts with important data related to collisions and other accidents in technical papers published by SAE International.

JERICHO, N.Y. ([PRWEB](#)) August 08, 2023 -- J.S. Held, a global consulting firm providing technical, scientific, and financial expertise across all assets and value at risk, announced today the release of an [article](#) focused on vehicle intelligence from infotainment, telematics, and advanced driver assistance systems providing important insights in forensic investigations. Three experts within the J.S. Held accident reconstruction group, Senior Accident Reconstructionist [William Bortles](#), Senior Technician [Chris Leone](#), and Director [Sami Shaker](#), share insight and expertise in six important topic areas.

Passenger Vehicle Data Collection

Data from airbag control modules (ACMs) found in passenger vehicles provides crucial information in the event of a collision. These ACMs are designed to detect crashes and record pre-crash data elements such as vehicle speed, engine speed, throttle position, and brake usage. Numerous peer-reviewed publications have verified the accuracy and reliability of ACM data, with vehicle speed shown to be reliable to within 1 MPH under normal driving conditions.

Heavy Vehicle Data Extraction

In contrast to passenger vehicles, most heavy commercial trucks are equipped with event data recorders (HVEDRs) in the engine control modules (ECMs). These HVEDRs record various parameters, including fault conditions, hard brake events, ABS and stability control events, and "last stop" data. J.S. Held is one of the select few service providers in North America capable of preserving data from Mack + Volvo HVEDRs.

Infotainment and Telematics Data Advancements

Modern passenger vehicles come equipped with sophisticated infotainment and telematics systems, providing a wealth of data beyond crash events. The systems record location and navigation data, cell phone usage, door open and close events, seat positions, and gear shift events. This non-crash data analysis extends the scope of accident investigators, including crimes involving automobiles, auto theft, and fraud.

Rise of Advanced Driver Assistance Systems (ADAS)

As vehicles evolve, so do safety systems, such as Advanced Driver Assistance Systems (ADAS). ADAS includes cruise control, adaptive cruise control, blind spot detection, lane-keeping assist, forward collision warnings, and collision avoidance systems. Equipped with cutting-edge sensors and cameras, these ADAS systems contribute to safer driving by alerting drivers to potential hazards.

Commercial Vehicle ADAS Advancements

Commercial vehicles are also embracing ADAS technology to enhance safety. Similar to passenger vehicles, modern commercial vehicles use advanced sensors and cameras to capture data that can be invaluable for accident reconstruction.

Role of Accident Reconstruction Expert

J.S. Held's accident reconstruction experts deliver specialized expertise in forensic investigations, evidence collection and preservation, and scientific diagrams and animations. First party and third-party clients retain our team of consultants, engineers, and Ph.D. scientists to provide expert witness and litigation support, from discovery to decision.

Our accident reconstructionists use advanced electronic data recovery and diagnostic tools to evaluate and reconstruct accidents involving passenger and commercial vehicles, trucks, buses, trains, motorcycles, bicycles, pedestrians, and more. When time is of the essence, our Rapid Response Evidence Preservation Team uses state-of-the-art technology to gather critical information, including:

- Crash ("Black Box") Data Retrieval & Analysis
- Drone Aerial Photography & Mapping
- High-Definition 3D Scanning & Mapping
- High-Definition Satellite Imagery
- Total Station Forensic Mapping

As technology advances, data collection, driver-assistance technologies, and ADAS will play increasingly significant roles in accident investigation and reconstruction. The information provided by these technologies offers accident reconstructionists a wealth of valuable insights in the hands of experts trained and accredited to extract, interpret, and testify as to its importance.

About J.S. Held

J.S. Held is a global consulting firm providing technical, scientific, and financial expertise across all assets and value at risk.

Our professionals serve as trusted advisors to organizations facing high-stakes events demanding urgent attention, staunch integrity, clear-cut analysis, and an understanding of both tangible and intangible assets. The firm provides a comprehensive suite of services, products, and data that enable clients to navigate complex, contentious, and often catastrophic situations.



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