

Curriculum Vitae

Jodie E. Immell, BSME, ACTAR

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BACKGROUND

Ms. Immell has over 25 years of experience in the accident reconstruction field. She has investigated thousands of cases, and her specialties include in-depth analysis across a wide variety of collision types. She can quickly assess most collisions with basic information to provide consultations. Ms. Immell works with clients nationwide, and she can help clients understand the crash, provide technical analysis, written reports, testimony and visual exhibits to convey key aspects to attorneys, experts and juries. She has provided deposition and trial testimony in federal and state courts across the United States. Ms. Immell is experienced in large interstate “pileups,” tractor-trailer collisions, bus collisions, police involved collisions, low and high severity collisions, motorcycle collisions, bicycle collisions, pedestrian collisions, nighttime visibility, perception response time, and more. She understands the 30,000-foot view and can dig into the evidence across many sources to provide answers to important questions.

AREAS OF EXPERTISE

- Automobile Collisions
- Tractor-Trailer Collisions
- Bus Collisions
- Motorcycle Collisions
- Bicycle Collisions
- Pedestrian Collisions
- Occupant Kinematics
- Data Recovery, Preservation & Analysis
 - CDR/EDR Downloads
 - Heavy Truck ECM Downloads
 - Toyota VCH Downloads
- Human Factors in Accident Reconstruction
 - Perception Response Analysis
 - Nighttime Visibility Analysis
- Digital Video Analysis
- Research/Testing
- Simulation Analysis
- 3D Scanning/Drone Mapping

PROFESSIONAL LICENSES & CERTIFICATIONS

- SAE Accident Reconstruction Certificate, 2020
- Accreditation Commission for Traffic Accident Reconstruction (ACTAR), #2441 – 2011
- ECM Download and Analysis since 2010
- CDR Technician and Data Analyst since 2007
- FAA Remote Pilot Certification, 4071984

EDUCATION

- B.S., Mechanical Engineering, Michigan Technological University, Houghton, MI, 1996

PROFESSIONAL EXPERIENCE

2025 – Present | Quality Forensic Engineering, LLC | Senior Engineer, Tallahassee, FL

2023 – 2024 | PA Forensic, LLC | Consultant, Oklahoma

2000 – 2023 | Ponderosa Associates, Ltd. | Consultant, Lafayette, CO

1999 – 2000 | Knott Laboratory, Inc. | Engineer, Englewood, CO

1997 – 1998 | Town of Vail | Bus Driver, Vail, CO

1996 – 1997 | Honda R & D North America, Inc. | Engineer, Raymond, OH

1995 – 1996 | Michigan Technological University | Professor Assistant, Houghton, MI

1995 | Delphi Energy & Engine Management Systems | Engineering Intern, Flint, MI

1994 | 3-Dimensional Services | Engineering Intern, Rochester, MI

NOTABLE PROJECTS

Ms. Immell has participated in testing, analysis, and crash reconstruction for large scale product liability matters including airbag failures, vehicle crashworthiness, car seats, Ford Explorer rollovers, Toyota Sudden Unintended Acceleration (SUA) collisions, and General Motors ignition switch cases. She specializes in technical data analysis from a variety of sources including Toyota Vehicle Control History (VCH) data, Tesla car logs, event data recording data from Airbag Control Modules (ACMs), Engine Control Modules (ECMs), motorcycles, GPS data, and more.

PROFESSIONAL ASSOCIATIONS

- Society of Automotive Engineers (SAE)
- Southwestern Association of Technical Accident Investigators, Inc. (SATAI)
- National Association of Professional Accident Reconstruction Specialists (NAPARS)

HONORS AND AWARDS

- Bachelor of Science in Mechanical Engineering Cum Laude Honors

COURSEWORK/CONTINUING EDUCATION

2025 | "Advanced Crash Reconstruction Utilizing Human Factors Research," Jeffrey Muttart, Ph.D., Driver Research Institute

2025 | "Pedestrian and Bicycle Accident Reconstruction," Michael Hill, Ph.D., P.E., Quality Forensic Engineering, LLC

2025 | "Accident Reconstruction and Digital Data," Erich L. Breedlove, Quality Forensic Engineering, LLC

2025 | "Accident Reconstruction 101," Michael Hill, Ph.D., P.E., Quality Forensic Engineering, LLC

2025 | "Forensic Evaluation of Slip, Trip, and Fall Events," Tracy K. Campbell, P.E., CFSE, CXL, Quality Forensic Engineering, LLC

- 2024 | "UAS Crime Scene Videography," Gerald Baum, NAPARS
- 2024 | "ADAS Testing and Reconstruction," Shawn Harrington and James Lau, SAE
- 2024 | "Advanced Photogrammetry for Collision Reconstruction," Lightpoint Learning
- 2024 | "Response User Forum," Driver Research Institute
- 2023 | "vCRASH Interface and Simulation Basics," Virtual Crash
- 2023 | "Live Crash Testing," SATAI
- 2023 | "Vehicle System Forensics," Wesley Vandiver, SATAI
- 2023 | "EDR Updates," Brad Muir, SATAI
- 2023 | "Photography," Brandon Nabozny, SATAI
- 2023 | "Video Analysis," Jorgensen & Swinford, SATAI
- 2023 | "Simulations Course," Engineering Dynamics Corporation
- 2022 | "IDRR Software Instruction," Driver Research Institute
- 2022 | "Motorcycle Collision Reconstruction - Independent Study," Lightpoint Learning
- 2022 | "Recon-3D Software Training," Recon 3D
- 2022 | "Advanced Applications of Heavy Vehicle EDR Data," SAE
- 2022 | "Video Evidence Training Symposium," INPUT ACE
- 2022 | "Cloud Compare Software Training," Ai2-3D
- 2022 | "Pix4DMapper Essentials," Pix4D
- 2021 | "Vehicle System Forensics Course," Berla iVe
- 2021 | "Vehicle System Forensic Examiner," Berla iVe
- 2020 | "Reconstruction and Analysis of Rollover Crashes of Light Vehicles, SAE
- 2020 | "Driver Distraction from Electronic Devices: Insights and Implications," SAE
- 2020 | "Accident Reconstruction, the Autonomous Vehicle and ADAS," SAE
- 2019 | "Adv Analysis of Driver's Resp based on Human Factors," Crash Safety Solutions
- 2019 | "Vehicle Crash Reconstruction: Principles and Technology," SAE
- 2018 | "Applying Automotive EDR data to Traffic Crash Reconstruction," SAE
- 2017 | "Commercial Vehicle Event Data Recorders," William Messerschmidt

- 2016 | "Introduction to Brake Control Systems," SAE
- 2016 | "Vehicle Dynamics for Passenger Cars and Light Trucks," SAE
- 2016 | "Heavy Vehicle Crash Reconstruction," Northwestern
- 2015 | "Crash Data Retrieval (CDR) Technician & Data Analyst," CDR
- 2011 | "HVE Forum," Engineering Dynamics Corporation
- 2010 | "Crash Data Retrieval (CDR) Technician & Data Analyst," CDR
- 2010 | "Commercial Vehicle Event Data Recorders," William Messerschmidt
- 2008 | "ARC-CSI Crash Conference"
- 2007 | "Crash Data Retrieval (CDR) Technician & Data Analyst," CDR
- 2004 | "HVE Forum," Engineering Dynamics Corporation

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