



Ryan Hadley

BSME, ACTAR

Accident Reconstructionist

Department

Accident Reconstruction & Forensic Animation

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Locations

San Antonio, TX

Biography

Ryan Hadley, an accredited Accident Reconstructionist (ACTAR), commenced his engineering career with a background spanning oil & gas, medical devices, and battery technologies. In 2019, he transitioned into accident reconstruction, leveraging his precision-focused research and design engineering expertise, attention to detail, and problem-solving skills.

As a Senior Accident Reconstructionist, he has given evaluations on cases involving passenger vehicles, commercial trucks, motorcycles, pedestrians, and premises. His scope of expertise extends to engineering analysis reconstruction (vehicle crash, rollover, off-road, low-speed impact), photogrammetry, digital analysis, vehicle dynamics, electronics research, product/component testing, forensic animation and graphics, Event Data Recorders, laser surveys, and vehicle/site forensic investigation.

His academic accomplishments and professional associations parallel Ryan's commitment to excellence. He earned a Bachelor of Science degree in Mechanical Engineering from The University of Texas at San Antonio and is a member of the Society of Automotive Engineers, the American Society of Mechanical Engineers, and the Texas Trucking Association (TXTA).

Credentials

- BSME | Bachelors of Science in Mechanical Engineering
- ACTAR | Accident Reconstruction and Traffic Engineering
- FAA Certified Drone Pilot

Representative Consulting Assignments

- Component Failure Analysis | Multiple Locations | Investigation, analysis, and reconstruction of vehicle/system response due to component failure
- Vehicle Electronic Data Download | Multiple Locations | Download vehicle input and response data for analysis of crash sequences
- Vehicle Rollover Analysis | Multiple Locations | Investigation, analysis, and reconstruction of passenger and heavy vehicle rollover crash sequences
- Trucking Analysis | Investigation, analysis, and reconstruction of single and multiple heavy vehicle collisions
- Collision Analysis | Investigation, analysis, and reconstruction of single and multiple vehicle collisions
- Evidence Preservation | Document and preserve evidence for evaluation and analysis

Professional Experience

- 2024 - Current | Senior Accident Reconstructionist |
- 2023 - 2024 | Senior Associate | YA Engineering Services
- 2019 - 2023 | Project Engineer | J. Eftekhari & Associates
- 2018 - 2019 | R&D Engineer | Ramp USA
- 2017 - 2018 | R&D Engineer | Arjo Huntleigh

Area of Practice

- Accident Reconstruction
- Graphics & Animation
- Litigation Support
- HVAC and Mechanical Systems
- Failure Analysis
- Damage Assessment

Education

- The University of Texas at San Antonio - Bachelors of Science - Mechanical Engineering - San Antonio - Texas
- Safety Management Council - Texas Trucking Association Seminar
- FAA Part 107 Remote Pilot Exam Prep Course - Drone Launch Academy
- ACTAR Test Preparation - Comprehensive - Institute of Police Technology and Management (IPTM)
- Property Adjusting - NAIIA Southwest Region Business Meeting & Educational Seminar
- Accident Reconstruction and Traffic Engineering - NAIIA Southwest Region Business Meeting & Educational Seminar
- Fundamentals of Crash Investigation - IPTM - Case Preparation and Courtroom Presentation
- Fundamentals of Crash Investigation - IPTM - Vehicle Lamp Examinations in Traffic Collisions
- Fundamentals of Crash Investigation - IPTM - Tire Examinations - Tire and Wheel Forensics
- Fundamentals of Crash Investigation - IPTM - Safety Belt Examinations
- Fundamentals of Crash Investigation - IPTM - Roadway Evidence
- Crash Data Training - Crash Academy - How To Perform a CDR Direct-to-Module Download
- Crash Data Training - Crash Academy - How To Use The Bosch CDR Pro Tool Kit
- HVE Forum - Intermediate HVE & HVE-2D Pt. II
- HVE Forum - Intermediate HVE & HVE-2D Pt. I
- HVE Forum - Theoretical & Applied Vehicle Dynamics Pt. II
- HVE Forum - Theoretical & Applied Vehicle Dynamics Pt. I
- HVE Forum - 3D Editor: Functionality, Friction Zones & Importing Models
- HVE Forum - Advanced EDCRASH
- FARO - FARO Zone 3D Event Data Recorder
- FARO - FARO Zone 3D Advanced Animation
- School of PE - FE - Mechanical Practice Portal
- J. Eftekhari & Associates (JEA) - Planar Impact Mechanics
- J. Eftekhari & Associates (JEA) - Occupant Kinematics
- J. Eftekhari & Associates (JEA) - Advanced Momentum and Delta-V Analysis
- J. Eftekhari & Associates (JEA) - MER (Low Impact) and Post-Impact Analysis
- J. Eftekhari & Associates (JEA) - Advanced Momentum and Collinear Momentum
- J. Eftekhari & Associates (JEA) - Crush and EBS Analysis
- J. Eftekhari & Associates (JEA) - Download and Analysis of Vehicle Modules
- J. Eftekhari & Associates (JEA) - Photogrammetry and Media Analysis
- J. Eftekhari & Associates (JEA) - Heavy Trucking Basics
- J. Eftekhari & Associates (JEA) - Basics of Drawings on FARO Zone/Reality 3-D
- J. Eftekhari & Associates (JEA) - Basics of Documentation of Vehicles/Sites
- Society of Automotive Engineers (SAE) - Accessing and Interpreting Heavy

Vehicle Event Data Recorders

- Society of Automotive Engineers (SAE) - Photogrammetry and Analysis of Digital Media
- EDR Summit - EDR Tool Technician Trainer Mentor Train-The-Trainer Course
- EDR Summit - Toyota TechStream
- EDR Summit - Event Data Recorder User's Technical Conference
- Society of Automotive Engineers (SAE) - The Fundamentals of Vehicle Dynamics
- Recon-3D - Recon-3D Training Course
- Society of Automotive Engineers (SAE) - Introduction to Brake Control Systems: ABS, TCS, and ESC
- Society of Automotive Engineers (SAE) - Vehicle Crash Reconstruction: Principles and Technology

Affiliations

- Society of Automotive Engineers (SAE International)
- American Society of Mechanical Engineers (ASME)
- Texas Trucking Association (TXTA)

Licenses

- 3419941 - FAA Part 107 Drone Pilot
 - 4329 - Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
 - 72052 - Texas - EIT
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