



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 consultant, 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

- 2023 - Current | 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
- Texas Trucking Association Seminar - Safety Management Council
- NAIIA Southwest Region Business Meeting & Educational Seminar - Accident Reconstruction and Traffic Engineering
- NAIIA Southwest Region Business Meeting & Educational Seminar - Property Adjusting
- Drone Launch Academy - FAA Part 107 Remote Pilot Exam Prep Course
- Institute of Police Technology and Management (IPTM) - ACTAR Test Preparation - Comprehensive
- 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

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 - International - Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
 - 72052 - Texas - Engineer-In-Training (EIT)
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