



Ryan Hadley BSME, ACTAR

Senior Associate

Department
Engineering

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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 (TTA).

Education

- The University of Texas at San Antonio | San Antonio, Texas
Bachelors of Science - Mechanical Engineering
- 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

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

Areas of Practice

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

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

Affiliations

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

Credentials

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

Licenses

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