



## Adam Van Cleave

### Senior Managing Biomechanist

#### Department

Accident Reconstruction & Forensic Animation

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#### Locations

Dallas, TX

## Biography

Mr. Van Cleave joined YA Engineering Services through the acquisition of Bloomberg Consulting. He provides consulting services to insurance carriers, law firms, and corporate clients. His expertise includes analyzing and evaluating biomechanical systems, including voluntary and involuntary human motions, and conducting human-injury impact analysis related to motor vehicle accidents, slips, trip and falls, falling objects, and other accidental events. He performs analysis and reconstruction for low- to high-speed motor vehicle accidents, fatality accidents, pedestrian accidents, head impacts, vehicle rollovers, and other types of accidents to determine injury potential and consistency, seatbelt use, the effects of airbag interaction, and occupant positions. He performs analyses to determine at-fault liability claims. Mr. Van Cleave also has expertise in sports-related injury biomechanical analysis and experience in medical device root cause failure analysis.

## Credentials

- Master of Science - Mechanical Engineering
- Accreditation Commission for Traffic Accident Reconstruction - Accredited Accident Reconstructionist
- FAA Certified Drone Pilot

## Representative Consulting Assignments

- Accident Reconstruction | Determine the dynamics of various types of events, including but not limited to motor vehicle accidents, slips/trips/falls, and falling objects.
- Biomechanical Analysis | Determine consistency of injury mechanism with the dynamics of a given event.

## Professional Experience

- 2024 - Current | Senior Managing Biomechanist | YA Engineering Services
- 2023 - 2024 | Senior Biomechanical Consultant | Bloomberg Consulting
- 2020 - 2023 | Senior Consultant | Rimkus
- 2015 - 2019 | Field Service Representative | Styker Medical
- 2010 - 2018 | Director of Performance Training/Education Coordinator | Conatus Athletics
- 2010 - 2012 | Director of Performance Training | All American Heavyweights
- 2009 - 2010 | Sports Performance Specialist | Athletes' Performance

## Area of Practice

- Accident Reconstruction
- Biomechanics
- Human Factors
- Slip and Fall Evaluations

## Education

- Purdue University - Master of Science - Mechanical Engineering - West Lafayette - Indiana
- Northern Illinois University - Bachelor of Science - Kinesiology: Preventative and Rehabilitative Exercise - DeKalb - Illinois

## Training Courses

- FCM Data - EDR User's Summit - Houston, TX - 2024
- CDR Past Present Future - EDR User's Summit - Houston, TX - 2024
- GM Vehicle Systems - EDR User's Summit - Houston, TX - 2024
- Toyota Safety Sense - EDR User's Summit - Houston, TX - 2024
- Heavy Vehicle EDR - EDR User's Summit - Houston, TX - 2024
- Mobile Forensics - EDR User's Summit - Houston, TX - 2024
- Automated Traffic Signal Performance - EDR User's Summit - Houston, TX - 2024
- CDR Data Application - EDR User's Summit - Houston, TX - 2024
- Hyundai & Kia Update and Systems Overview - EDR User's Summit - Houston, TX - 2024
- Vehicle Systems Forensics - EDR User's Summit - Houston, TX - 2024
- Nissan Data Polarity and "Clipping" - EDR User's Summit - Houston, TX - 2024
- Tesla CAN Bus Data - EDR User's Summit - Houston, TX - 2024
- Event Data Recorder Use in Traffic Crash Reconstruction - Level 2 - Institute for Police Technology and Management - Phoenix, AZ - 2022
- HVE Forum- Theoretical and Applied Vehicle Dynamics I and II; SIMON Simulation Module; Intermediate HVE & HVE 2-D I and II; Building Vehicles for HVE/HVE 2-D; DYMESH 3-D Collision Model - EDCORP - 2021
- Utilizing 3D Technology in the Courtroom; Public Safety & Forensics 3D Scanning Best Practices - FARO Technologies - 2019
- Pedestrian Crashes: Scene, Body and Vehicle Evidence - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- Pedestrian Impact Research: Testing and Modeling with PC Crash - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- Electric Scooters: Performance characteristics of acceleration and deceleration - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- Non-Electric Scooters: Performance of push-type scooters based on age of rider using instrumented tests - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- GPS Units: advanced data extraction and data processing - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- Testing with VBOX 3i, VBOX Sport, and Stalker Radar - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- Utilizing Video Evidence in Traffic Investigations - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- The Math and Physics Behind the Equations Used in Accident Reconstruction, Where They Come From, Their Verification Using Computer Simulations - California Association of Accident Reconstruction Specialists Fall Conference - 2019
- Event Data Recorder Use in Traffic Crash Reconstruction - Level 1 - Institute for Police Technology and Management - 2019
- Investigation of Pedestrian Collisions - Institute for Police Technology and Management - 2019

- Case Preparation and Courtroom Presentation - Institute for Police Technology and Management - 2019
- Roadway Evidence - Institute for Police Technology and Management - 2019
- Safety Belt Examinations - Institute for Police Technology and Management - 2019
- Tire Examinations - Tire and Wheel Forensics - Institute for Police Technology and Management - 2019
- Vehicle Lamp Examinations in Traffic Collisions - Institute for Police Technology and Management - 2019
- Bosch Crash Data Retrieval Tool Technician Training - Institute for Police Technology and Management - 2019

## **Affiliations**

- Texas Association of Accident Reconstructionist Specialists (TAARS)
- Society of Automotive Engineers (SAE)

## **Licenses**

- 01009882 - Texas - Private Investigator
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