



## David Huskey

**BSCE, PE, ACTAR**

### Senior Managing Accident Reconstructionist

#### Department

Accident Reconstruction & Forensic Animation

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**Email:** david.huskey@yaeservices.com

#### Locations

Knoxville, TN

## Biography

Mr. Huskey is a licensed Professional Engineer in 17 states and a certified Accident Reconstructionist. After obtaining his Bachelor of Science in Civil Engineering from the University of Tennessee, he has continued his education at Northwestern University, University of North Florida, Institute of Police Technology and Management (IPTM), as well as continuing education courses from the State of Tennessee and the Federal Highway Administration (FHWA). Mr. Huskey has a diverse background that includes roadway design and geometric analysis that seamlessly combines with a background in accident reconstruction. His reconstruction background includes specific training in field and reconstruction experience, but not limited to, passenger vehicle collisions, motorcycle collisions, commercial vehicle collisions, pedestrian collisions, and bicycle collisions.

## Credentials

- BSCE | Bachelor of Science, Civil Engineering
- PE | Professional Engineer
- ACTAR | ACTAR- #1328
- FAA Certified Drone Pilot (FAACDP)
- CDR Operator/Technician
- CDR Analyst

## Representative Consulting Assignments

- Vehicle Electronic Data Download | Multiple Locations | Download vehicle input and response data for analysis of crash sequences
- Collision Analysis | Multiple Locations | Investigation, analysis, and reconstruction of single and multiple vehicle collisions
- Trucking Analysis | Multiple Locations | Investigation, analysis, and reconstruction of single and multiple heavy vehicle collisions
- Airbag Analysis | Multiple Locations | Investigation and analysis of vehicle airbag performance
- Construction Zone Signing and Marking Analysis | Multiple Locations | Investigation, analysis, and reconstruction of single and multiple collisions in construction zones

## Professional Experience

- 2023 - Current | Senior Managing Engineer | YA Engineering Services
- 2023 - 2023 | Senior Consulting Engineer | Bloomberg Consulting
- 2010 - 2023 | Senior Forensic Engineer | EFI Global
- 2004 - 2009 | Senior Forensic Engineer // Branch Manager | Donan Engineering Company
- 2003 - 2004 | Project Manager | Ryabik, Moore and Associates, Inc.
- 2001 - 2003 | Transportation Analyst // Project | Zook, Moore and Associates, Inc.
- 1999 - 2001 | Roadway Specialist II | Tennessee Department of Transportation

## Area of Practice

- Accident Reconstruction
- Failure Analysis
- Heavy Trucking
- Motorcycle Accident Reconstruction
- Traffic Engineering

## Publications and Presentations

- "A Comparison of Light Detection and Ranging (LIDAR) Measurements to Accepted Industry Practices", Accident Reconstruction Journal 189, May/June 2022. David Huskey, Seth Behrens, Wade Bartlett

## Education

- University of Tennessee - Bachelor of Science - Civil Engineering - Knoxville - Tennessee
  - Monte Carlo Analysis - 2023 - NAPARS, Wade Bartlett
  - ADA Standards for Accessible Design - 2023 - Process Engineering Consultants
  - An Intro to Pavement Overlays - 2023 - Process Engineering Consultants
  - Statistics for Crash Analysis - 2023 - NAPARS, Wade Bartlett
  - Advanced Driver Assistance Systems & Crash Analysis - 2023 - Alan Moore
  - Human Factors in Accident Reconstruction - 2023 - Dr. Susan Lantz
  - Aerial Photogrammetry for Crash Reconstruction - 2023 - Andrew Klane
  - EDR Update - 2023 - Andy Rich
  - Vehicle Dynamics - 2022 - NAPARS, Adam Heide
  - Vehicle Spin Analysis - 2022 - NAPARS, George Meinshein
  - Heavy Vehicle Post Crash Inspection - 2022 - Forensic Training Group
  - Photos// Videos in Human Factors Analysis - 2021 - JS Forensic Consulting
  - Human Factors Considerations in Motorcycle Incidents - 2021 - Axiom Forensic
  - Retroreflective Materials - 2021 - JS Forensic Consulting
  - Object Detection - 2021 - JS Forensic Consulting
  - Tools, Technology and Techniques for Human Factors Analysis - 2021 - Messerschmidt Safety Consultants
  - Looming - 2021 - Dr. John Lloyd
  - How Far Do Headlights Illuminate? - 2021 - Clearly Visible Presentations
  - Photometry for Forensic Investigations - 2021 - Clearly Visible Presentations
  - Distracted Driving: Causes and Consequences - 2021 - Dr. John Lloyd
  - Drivers' Recognition of Objects at Night: The Influence of Driver Expectation - 2021 - Crash Safety Solutions
  - Perception Response Time and the 1.5 Second Myth - 2021 - Crash Safety Solutions,
  - What is HF, Equipment and Tools - 2021 - Messerschmidt Safety Consultants
  - Tire Forensics - 2021
  - Click 3D Photogrammetry - 2021
  - Bosch CDR Tool Technician Training - 2020
  - Design of Conduits, Culverts and Pips - 2020
  - Construction Site Stormwater Runoff Control - 2020
  - Inspection of Highway and Rail Transit Tunnels - 2020
  - History of Coastal Engineering - 2019
  - History of the Gulf Intracoastal Waterways - 2019
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- Pavement Seal Coating Practices - 2019
- Pavement Maintenance Management - 2019
- Traffic Controllers Phasing Sequence and Signal Timings - 2018
- Low Cost Traffic Engineering Improvements - 2017
- Roadway Vertical Alignments - 2017
- Modern Roundabout Design - 2017
- Roadway Horizontal Alignments - 2017
- Ethics, Professionalism and Disciplinary Actions - 2016
- Laws/ Rules - 2016
- Vehicle Dynamics, Kinetic Energy/ Work Energy, Critical Speed, Time-Distance, Vehicle Damage, Lamp Examinations, Tire Inspections, Airborne, Human Factors, Vector Analysis, Linear Momentum - 2015
- CDR Technician Level Two - 2014 - Collision Safety Institute
- IDRR Workshop - 2014 - Dr. Jeff Muttart
- Optics, Lighting, and Visibility. Forensic Photography - 2013 - Clearly Visible Presentations
- MUTCD Part 1 Chapter 1A: General - 2012 - CEE, Inc.
- MUTCD Part 2C: Warning Signs - 2012 - CEE, Inc.
- MUTCD Part 5 A-G: Traffic Control Devices for Low Volume Roads - 2012 - CEE, Inc.
- MUTCD Part 6 Chapter 6A-E: Temporary Traffic Control - 2012 - CEE, Inc.
- MUTCD Part 6 Chapter 6G: Type of Temporary Traffic Control Zone Activities - 2012 - CEE, Inc.
- MUTCD Part 6F: Temporary Traffic Control Zone Devices - 2012 - CEE, Inc.
- Low Cost Treatments for Horizontal Curve Safety - 2012 - CEE, Inc.
- Crash Data Retrieval (CDR) Analyst Course, Software 3.3x - 2010 - Collision Safety Institute
- Crash Data Retrieval (CDR) Technician Course, Software 3.3x - 2010 - Collision Safety Institute
- Validation for the Use of the Drag Sled in Determining a Reasonable Range for the Coefficient of Friction in Traffic Crash Reconstruction - 2009 - IPTM
- The Application of the Throw Distance Formulae - 2009 - IPTM
- Commercial Motor Vehicle Foundation Brakes - 2009 - IPTM
- CDR Release 3.1 - 2009 - IPTM
- Lamp Analysis - 2009 - IPTM
- Damage Profile Analysis - 2009 - IPTM
- Airborne Trajectories and Analysis - 2009 - IPTM
- Single-Image Planar Rectification and Multi-Image and Close-Range - 2009 - IPTM
- Photogrammetry in Crash Reconstruction - 2009 - IPTM
- Jersey Barrier Crash Testing - 2009 - IPTM
- Low Speed Impacts - 2008 - Dr. Winthrop Smith
- Automotive Technology: Passenger Cars and Light Trucks- Brakes, Tires, Electrical, Restraints, "Black Box", Flammables, Combustibles and Ignitable Liquids, Steering and Suspension, Engine, Transmission and Driveline - 2008 - Donan Engineering
- Special Problems in Traffic Crash Reconstruction - 2008 - University of North Florida, (IPTM),
- An Effective and Accepted Traffic Safety Program - 2008 - University of North Florida, (IPTM),
- Sudden Acceleration Incident Investigation - 2008 - University of North Florida, (IPTM),
- Event Data Recorder Update - 2008 - University of North Florida, (IPTM),
- Driver Response Choice and Times - 2008 - University of North Florida, (IPTM),
- Validating the "f" in Searle - 2008 - University of North Florida, (IPTM),

- The Science of Defining Safe Roads for Traffic Crash Investigation and Reconstruction - 2008 - University of North Florida, (IPTM),
- Case Analysis of a 300 Foot Projection of a Pedestrian and Vehicle Collision - 2008 - University of North Florida, (IPTM),
- A Comparison of Equations for Estimating Speed Based on Maximum Static Deformation for Frontal Narrow Object Impacts - 2008 - University of North Florida, (IPTM),
- Accounting for Impulse and Rotation: An Application to Left Turn, Failure-to-Yield Collisions - 2008 - University of North Florida, (IPTM),
- Conservation of Linear Momentum-Multiple Departure - 2008 - University of North Florida, (IPTM),
- Pedestrian/ Bicycle Crash Investigation - 2007 - University of North Florida, (IPTM),
- Motorcycle Crash Investigation - 2006 - University of North Florida, (IPTM),
- Indoor Air Quality - 2006 - Measurements
- HVAC Systems and Indoor Air Quality - 2006
- Crash data Retrieval System-Operators Certification Course - 2005 - Collision Safety Institute
- Traffic Accident Reconstruction II - 2004 - Northwestern University
- Inspection and Investigation of Commercial Vehicle Crashes - 2003 - IPTM
- Accident Reconstruction for Engineers - 2002 - Northwestern University
- Tennessee Transportation Assistance Program (TTAP) Roadside Design - 2002 - FHWA
- Manual on Uniform Traffic (MUTCD), Control Devices - 2000 - State of Tennessee, FHWA
- Technician Qualifications for Soils and Aggregates - 2000 - State of Tennessee
- The American Association of State Highway and Transportation Officials (AASHTO) Roadside Design Guide - State of Tennessee, FHWA
- (TTAP) Site Impact Analysis - State of Tennessee

## Affiliations

- Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
- International Network of Collision Reconstructionists (INCR)
- CDR Users Group
- National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Washington Association of Technical Accident Investigators (WATAI)

## Licenses

- 0108199 - Tennessee - Professional Engineer
- 23929 - Kentucky - Professional Engineer
- 16748 - Mississippi - Professional Engineer
- 30799 - North Carolina - Professional Engineer
- 70105 - Ohio - Professional Engineer
- 24138 - South Carolina - Professional Engineer
- 041134 - Virginia - Professional Engineer
- 030333 - Georgia - Professional Engineer
- 13972 - Arkansas - Professional Engineer
- 30759 - Alabama - Professional Engineer
- 2006013899 - Missouri - Professional Engineer
- PE 71151 - Florida - Professional Engineer
- PE080555 - Pennsylvania - Professional Engineer
- Civil 52131 - Massachusetts - Professional Engineer

- PE40437 - Louisiana - Professional Engineer
  - 52246 - Maryland - Professional Engineer
  - 23118 - West Virginia - Professional Engineer
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