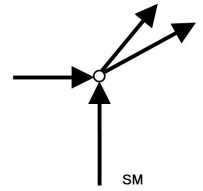


COLLISION CONSULTANTS AND INVESTIGATIONS



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OCTOBER 22, 2022

Curriculum Vitae

C. Dean Brewer
Traffic Collision Reconstruction
And Computer Animation Specialist
ACTAR #1225

EDUCATION:

- Associate of Arts (Admin of Justice) San Bernardino Valley College
- Bachelor of Arts - 2014 (Public Admin) California State University San Bernardino

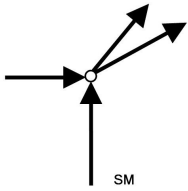
PROFESSIONAL EXPERIENCE:

Collision Reconstruction Expert

- The Brewer Group (2005-2007)
 - Forensic reconstruction of Traffic Collisions
 - Computer animation and collision sequencing
- Collision Consultants, Inc. (2006 to 2013) – Contractor Services
- Collision Dynamics (2008-2010) – Contractor Services
- Collision Consultants and Investigations (2014 to Present) - Proprietor and Principal Consultant

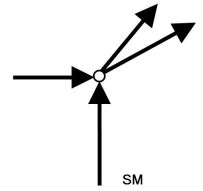
Police Department Traffic Division Supervisor and Motor Officer

- Azusa Police Department (2000-2013 **Retired**)
 - Traffic division collision investigation and enforcement coordinator
 - Grant author and coordinator
 - Coordinate traffic collision investigations
 - Investigate traffic collisions
 - Train department personnel in traffic law enforcement and collision investigation
 - Motorcycle training (certified motor instructor)
 - Review traffic collision reports
 - Expert traffic collision reconstructionist



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- Administrative duties

Patrol Field Supervisor

- Azusa Police Department (1998-2000 years)
 - Patrol city streets
 - Coordinate dynamic field incidents
 - Coordinate complex crime scene investigations

Traffic Officer (Motorcycle)

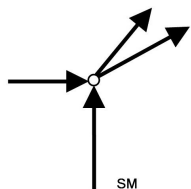
- Azusa Police Department (1988- 1998 and 2000-2013)
 - Traffic collision investigations
 - Traffic law enforcement
 - Drunk driving task force
 - Promoted to Corporal

Patrol Officer

- Azusa Police Department (1985-1988)
 - Patrol city streets
 - Crime scene investigation
 - Evidence collection and photography
 - Traffic collision investigation
 - Drunk driving enforcement
 - Courtroom testimony

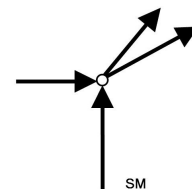
Related Experience

- Qualified collision investigation and reconstruction expert in Los Angeles, Riverside, Kern and San Bernardino Counties.
- Accredited as a collision reconstructionist by the Accreditation Commission for Traffic Accident Reconstruction (ACTAR #1225) (current since 2001)
- Investigated over 3000 traffic collisions; assisted, reconstructed or reviewed an additional 4000 investigations
- Member of the National Association of Professional Accident Reconstruction Specialists (NAPARS)



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- Member of the California Association of Accident Reconstruction Specialists (CAARS)
- Past member of Traffic Safety Council for the City of Azusa

Field of Training

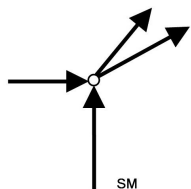
- Automobile Accident Reconstruction
- Heavy vehicle Accident Reconstruction
- Pedestrian and Bicycle Accident Reconstruction
- Forensic Mapping
- Crash Data Retrieval and Analysis
- Evidence/Scene Diagramming and Relative Spatial Positions over Time (2D and 3D Animation)

Certificates

- **Bachelor's Degree in Administration with a Public Administration Concentration from California State University San Bernardino.**
- **Accreditation Commission for Traffic Accident Reconstruction (ACTAR #1225)**
- **Advanced Collision Diagramming and 3D Animation**
- **Forensic Mapping Technician**
- **Crash Data Retrieval Technician I and II Course**
- **Event Data Record Data Analyst**

Training List (Over 1,100 hours)

- **Basic Collision Investigation** (40 hours), Los Angeles County Sheriff's Department.
- **Intermediate Collision Investigation to include skid analysis and speed from skid determination**(40 hours) - Los Angeles County Sheriff's Department.
- **Advanced Traffic Collision Investigation to include skid analysis, tire mark analysis, speed from yaw determination and energy from crush** (80 hours) - Ventura County Criminal Justice Center.
- **Traffic Collision Reconstruction to include energy from crush, speed from momentum calculations, vehicle mechanical inspections and seatbelt analysis** (80 hours) -Riverside County Academy of Justice.
- **Pedestrian/Bicyclist Accident Reconstruction to include in person test crashes with anthropomorphic dummies and empirical studies and formulas to determine speed of vehicle** - Rusty Haight and Eugene Banks (40 hours), Edwards AFB (1996)



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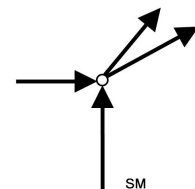
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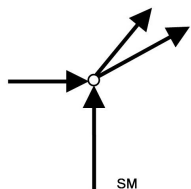
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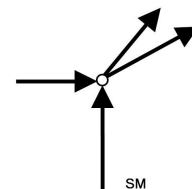


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- **Advanced Traffic Collision Reconstruction to include further derivation of the momentum equation and vector diagramming** (40 hours), Texas A&M University hosted in Los Angeles.
- **Traffic Collision Investigation and Reconstruction Seminar**, Concord CA (20 hours)
- **Heavy Vehicle Reconstruction** (24 hours) - California Association of Accident Reconstruction Specialist.
- **Grade Crossing Collision Investigation** (8 hours) - Union Pacific Railroad, Los Angeles CA.
- **Traffic Safety Workshop for Law Enforcement Professionals** (8 hours) - San Diego, CA.
- **Evaluating Crashes for Injury Potential Conference to include seatbelt analysis and airbag deployments** (16 hours) - Las Vegas, NV.
- **Low Speed Rear End Collisions and Higher Speed Broadside Crashes** (28 hours) - ARC Network – Collision Safety Institute Crash Conference (2004), Las Vegas, NV.
- **Advanced Collision Diagramming and 3D Animation** (40 hours), Visual Statement, Santa Ana, CA.
- **Pedestrian and Bicycle Crashes. To include Human Factors, Airbag Deployment Thresholds and seatbelt usage, Commercial Vehicle EDR data, Crash data, Commercial Vehicle Crashes, Damage and Energy Concepts, Child safety Seats, Pedestrian Crash Analysis and Pedestrian crash injuries** (28 hours) - ARC Network/ Collision Safety Institute Crash Conference (2005), Las Vegas, NV.
- **Motorcycle and Recreational Vehicle Crashes. Included Aerial Photo Analysis, Motorcycle crash information, Friction applications and Momentum with secondary contacts** (28 hours) - ARC Network – Collision Safety Institute Crash Conference (2006), Las Vegas, NV.
- **Basics of Traffic collision Photography** (8 hours) - California Association of Accident Reconstruction Specialists 2nd Quarter training (2006), Riverside, CA.
- **Crash Reconstruction, Start 2 Finish. To include scene inspections, on-scene/post-scene vehicle inspection to include seatbelt analysis, occupant injury causation and autopsies indicators and speed calculations** (24 hours) - California Association of Accident Reconstruction Specialists Annual Conference (2006), South Lake Tahoe, CA.
- **Forensic Mapping** (8 hours) - California Association of Accident Reconstruction Specialists 2nd Quarter training (2007).
- **Vehicle to Vehicle Collisions and Change of Speed Data** (28 hours) - ARC Network – Collision Safety Institute Crash Conference (2007), Las Vegas, NV.
- **Bicycle crashes and bicycle inspections** (8 hours) - California Association of Accident Reconstruction Specialists Quarterly 1st Quarter training (2008),
- **Motor cycle crashes, vehicle to vehicle low and high speed crashes and Crash Data Recorder associated with tested vehicle crashes** (28 hours) - ARC Network – Collision Safety Institute Crash Conference (2008), Las Vegas, NV.
- **Vehicle Factors for Crash Reconstruction** (8 hours) - California Association of Accident Reconstruction Specialists Quarterly training (August 2008),



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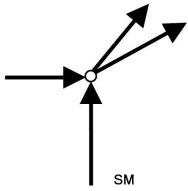
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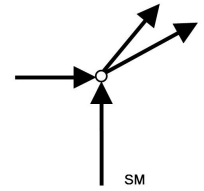
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- **Commercial Vehicle Dynamics, Air Brakes, Motorcycle Braking, Optics, lighting and Visibility, and Nighttime Driver Response** (28 hours) - ARC Network – Collision Safety Institute Crash Conference (2009), Las Vegas, NV.
- **PDOF, Accelerometers for skid testing, Low Speed Crash Analysis, Commercial Motor Vehicle Forensic Inspections and Crash Test reviews** NV (28 hours) - ARC Network – Collision Safety Institute Crash Conference (May, 2010), Las Vegas,.
- **Fundamentals of Energy Analysis, Crush and Delta V's, Conservation of Energy** (21 hours) - California Association of Accident Reconstruction Specialists Annual Training (October 2010), South Lake Tahoe.
- **Police Motorcycle Instructor** (80 hours) - San Bernardino Sheriff's Department Emergency Vehicle Operations Center (November 2010).
- **Management and Supervision of DUI/CDL Checkpoints** (16 hours) - Leadership Training Seminar (April, 2011), San Diego, CA. Deprep Inc.
- **Search Warrants for CDR, Intersection Collision reconstruction, Momentum, PDOF and Delta-V, Auto v Ped analysis, and Push bumpers and airbags** (28 hours) - ARC Network/ Collision Safety Institute Crash Conference (May, 2011), Las Vegas, NV.
- **Crash Reconstruction Analysis and Collision Forensics** (8 hours) - California Association of Accident Reconstruction Specialists, 3rd Quarter training (2011). Peter Rast and Michael Allison instructors.
- **Forensic Mapping Technician** (24 hours) - Precision Survey Supply, Upland (December, 2011).
- **Crash Data Retrieval Technician I and II Course** (16 hours) -CSI, Baldwin Park (February, 2012).
- **Expert Witness Testimony and Photography** (8 hours) - California Association of Accident Reconstruction Specialists, 2nd Quarter training (2012).
- **Closing Speed, Tread Separation, Seat Belt Analysis, Low Speed Collisions and Measuring Yaw Marks from Digital Mapping** (28 hours) - ARC Network - Collision Safety Institute Crash Conference (June, 2012), Las Vegas, NV
- **Pedestrian Crash Reconstruction and Area of Impacts** (8 hours), California Association of Accident Reconstruction Specialists, 3rd Quarter training (2012).
- **Event Data Record Data Analyst** (40 hours), Northwestern University, IL, 2013.
- **Heavy Vehicle Traffic Collision Investigation** (21 hours), California Association of Accident Reconstruction Specialists Annual Training (October 2013), Long Beach, California.
- **Forensic Mapping** (8 hours), California Association of Accident Reconstruction Specialists 3rd quarter training (August 2014), Fontana, California
- **Damage Energy Methods (Crush) by Toby Gloedler** (8 hours), California Association of Accident Reconstruction Specialists 1st quarter training (Feb 2016), Glendora, California.
- **Head On Collisions and Motorcycle Collisions-11 crash tests** (28 hours) - ARC Network - Collision Safety Institute Crash conference (May, 2016), Las Vegas, NV



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- **EDR Summit** (26 hours) - CDR data and case studies, light passenger to heavy vehicle - Collision Publishing and Collision Safety Institute (March 2017), Houston TX
- **Rollover and Motorcycle Collision Reconstruction** (21 hours), California Association of Accident Reconstruction Specialists, (October 2017), Anaheim, CA
- **Pedestrian/Bicycle vs. Auto Collisions** (8 hours), California Association of Accident Reconstruction Specialists 2nd Qtr Training (June 2018), Orange, CA
- **Human Factors (Perception Response Time), Heavy Vehicle EDR and Passenger Vehicle EDR updates** (17 hours), California Association of Accident Reconstruction Specialists Annual Conference (Oct 2018), South Lake Tahoe, CA
- **The Math and Physics Behind Accident Reconstruction** (7 hours), California Association of Accident Reconstruction Specialists, 1st Qtr Training (Jan 2019), Glendora, CA
- **Scooter and E-Scooters** (21 hours), California Association of Accident Reconstruction Specialists, Annual Conference (Oct 2019), Palm Desert, CA
- **Basic Forensic Photography and Video** (7 hours), California Association of Accident Reconstruction Specialists, Paul Jacobs, (Feb, 2020), Glendora, CA.
- **Tire Inspections** (2 hours), NAPARS, T.J. Tennent, (Oct 2020), Zoom Conference.
- **Diesel Engine ECM's** (2 hours), NAPARS, Wes Grimes, Greg Wilcoxson & David Plant, (Oct 2020), Zoom Conference.
- **Accident Reconstruction Using Crash Data** (2 hours), California Association of Accident Reconstruction Specialists, 4th Quarter Training (Dec 2020), Anthony Andreoni P.E., Zoom Conference.
- **3D Scene Visualization** (2 hours), California Association of Accident Reconstruction Specialists, 1st Quarter Training (Feb 2021), Franklin Wong from Talbott & Associates, Zoom Training.
- **Faro Zone 3D Advance Training – Certification** (10 hours), Faro, Russell Boynton, (April 2021). Zoom Training.
- **Night Accident Scene Recon Using sUAS** (2 hours), California Association of Accident Reconstruction Specialists, 2nd Quarter Training (May 2021), Zoom Training.
- **Photogrammetry (Using one photograph)**, (2 hours), California Association of Accident Reconstruction Specialists, 3rd Quarter Training (July 2021), Zoom Training.
- **Accident Investigation and Reconstruction Review (to include energy calculations)** (20 hours), California Association of Accident Reconstruction Specialists, Adam Hyde, Roger Barrette and Andrew Thomas, Annual Conference South Lake Tahoe (October 2021).
- **Scanners, Smart phones and Court Presentation**, (20 hours), California Association of Accident Reconstruction Specialists, Steve Irwin and Apurature LLC, Annual Conference Irvine (October 2022).