



Kauderer & Associates

Traffic Accident Reconstruction Experts

CURRICULUM VITAE OF JOHN W. CREWS, ACTAR

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PROFESSIONAL CREDENTIALS

Full Accreditation as a Traffic Accident Reconstructionist (ACTAR #2331)
Crash Data Retrieval (CDR) Analyst Certification
Director at Large, California Association of Accident Reconstruction Specialists (CA2RS) Board of Directors
Licensed Private Investigator, California State Bureau of Security and Investigative Services

AREAS OF EXPERTISE

ACCIDENT TYPES

- Low Speed Impact
- Staged / Fraudulent
- Motorcycle
- Commercial Vehicle
- Auto / Pedestrian
- Frontal / Rear / Side Impacts
- Rollovers
- High Speed Fatalities
- Intersection
- Single Vehicle
- Auto / Bicycle
- Railroad / LRV

ROADWAY

- Forensic Mapping
- Traffic Controls
- Friction Evaluation
- Geometrics / Design
- Scene Measurements
- Skid Mark Identification

ANALYSIS

- Speed-Time-Position Studies
- Speed from Damage (Crush)
- Delta V (Change of Velocity)
- Vehicle and Occupant Dynamics
- Transfer of Forces to Occupants
- Human Factors – Driver Response
- Driver Determination
- Computer-Aided Reconstruction
- Police/Expert Report Critique
- Avoidance Potential Calculations
- Tire Failure
- Technical Reports

DEMONSTRATIVE EXHIBITS

- Computer Generated Diagrams
- 2D- 3D Computer Simulations
- 3D Computer Animations
- PowerPoint Presentations
- Photographs
- Aerial Maps

EMPLOYMENT

Kauderer & Associates, Sacramento, CA	2014 to Present
Narrow Gate Investigations, Eastvale, CA	2014 to Present
Tustin Police Department, Tustin, CA	2014 to Present
Santa Ana Police Department, Santa Ana, CA	1979 to 2014

Not For Purposes of Expert Witness Disclosure

EDUCATIONAL BACKGROUND AND SPECIALIZED TRAINING

- **California State University, Fullerton**, B.A. Degree, Criminal Justice, Minor in Sociology, June 1981
- **Golden West College**, Huntington Beach, CA
 - **P.O.S.T. Basic Course** (Police Officer) August 1982
 - **P.O.S.T. Basic Course Instructor Certification**, September 2001
- **Basic Collision Investigation**, SAPD – Brett Nelson, 2002
- **Biomechanics/Kinematics**, CA2RS Quarterly Training, 2002
- **Intermediate Collision Investigation**, Ben Clark Training Center, 2002
- **Advanced Collision Investigation School**, Ben Clark Training Center, 2002
- **Vehicle Mechanical Inspection**, Ben Clark Training Center, 2002
- **Acceleration and Vericom Computer Familiarization**, Palm Springs PD, 2002
- **Grade Crossing Collision Investigation**, Union Pacific Railroad Police, 2002
- **Traffic Collision Investigation – Reconstruction**, Ben Clark Training Center, 2002
- **Basic Tire Mechanics and Inspection**, CA2RS Quarterly Training, Tom Giapponi, 2003
- **CA2RS Annual Conference 2003**, Vehicle Vs. Personal Mobility Devices, 2003
- **Advanced Lamp Analysis**, CA2RS Quarterly Training, James Domenoe, 2004
- **Auto-Pedestrian Collision Investigation**, Rudy Degger, Kent Boots, Chris Kauderer, 2004
- **Momentum**, CA2RS Quarterly Training, Rudy Degger, 2004
- **Forensic Mapping**, CA2RS Quarterly Training, Duke Dutch, SOKKIA Instruments, 2005
- **CA2RS Annual Conference 2005**, Investigating Emergency Vehicle Collisions
- **Bicycle Collision Investigation**, CA2RS Quarterly Training, Roman Beck, 2007
- **Speed Determination from Crush Analysis**, Ben Clark Training Center, 2007
- **CA2RS Annual Conference 2007**, CA2RS Toolbox: A Reconstruction Grab Bag
- **Traffic Signals and Intersection Collisions**, CA2RS Quarterly Training, Chris Kauderer, 2008
- **Vehicle Factors in Crash Reconstruction**, CA2RS Quarterly Training, Kent Boots, 2008
- **CDR Technician/Analyst Course**, Poway, CA, Rusty Haight, Collision Safety Institute, 2008
- **Cavanaugh & Assoc. D.U.I Seminar**, 2008
- **Motorcycle Collision Investigation**, IPTM, Vallejo, CA, 2009
- **VistaFX Basic/Advanced Diagramming & Animation**, Palm Springs, CA, 2009
- **CA2RS Annual Conference 2009**, Anaheim, CA, Accident Reconstruction at Traffic Signal Intersections. Auto-Bicycle Investigation & Reconstruction. Vehicular Homicide Investigation & Reconstruction. Validation and Testing of the Searle Formulae. Motorcycle Crash Testing.
- **Investigation and Analysis of Rollover Collisions**, CA2RS Quarterly Training, 2010
- **Auto-Pedestrian Collisions**, CA2RS Quarterly Training, Jesse L. Wobrock, Ph.D., 2010
- **Collision Fraud Investigation**, CA2RS Quarterly Training, Chris Mendez and Steve Hardy, 2010
- **Investigation & Analysis of Rollover Collisions**, CA2RS Quarterly Training, Kurt D. Weiss, 2010
- **Railroad Crash Investigation**, CA2RS Quarterly Training, Robert Halstead, 2011

- **Vehicle Inspection & Analysis for Repair/Loss Fraud**, CA2RS Quarterly Training, Dr. Kenneth R. Zion, 2011
- **Vehicular Homicide Seminar**, California Office of Traffic Safety, 2011
- **Crash Reconstruction Case Studies**, CA2RS Quarterly Training, Peter Rast & Michael Allison, 2011
- **CA2RS Annual Conference 2011**, Air Bag Fundamentals, CDR Technology Updates, Forensic Testing & Analysis of Seat Belts, Child Restraint Systems, Air Bag and Seat Belt Injuries.
- **Laser Scan, Photogrammetry, and Animation**. CAARS Quarterly Training, Craig Fries, 2012
- **Advanced Roadside Impaired Driver Enforcement**. OCDA/DRE School, 2012
- **Expert Witness Testimony, Evidence Photography**, CAARS Quarterly Training, Brian Myers, Michael Allison, 2012
- **Auto-Pedestrian Reconstruction and Case Study**, CAARS Quarterly Training, Rudy Degger and Kent Boots, 2012
- **CA2RS Annual Conference 2012**, Motorcycle Collision Reconstruction and Investigation, Motorcycle Crash Tests, Motorcycle Glance Patterns, Motorcycle Rider Braking Behavior, Motorcycle Slide Data and Motorcycle Inspections
- **A Momentum Refresher**, CAARS Quarterly Training, Bob Snook and Dean Reichenberg, 2013
- **Time Distance Analysis and Physical Evidence Identification**, CAARS Quarterly Training, Mike Allison and Jahna Beard, 2013
- **Side Underride Collisions with Big Rigs**, CAARS Quarterly Training, Rene Castaneda, 2013
- **CA2RS Annual Conference 2013**, Commercial Vehicle Collision Reconstruction and Investigation: Vehicle Rollovers, ECM, Vehicle Inspections, Case Studies.
- **Video Analysis in Collision Investigation with Case Studies**, CAARS Quarterly Training, Kurt Weise and Mark Hunt, 2014
- **Reconstruction of Red Light/Green Light Accidents**, CAARS Quarterly Training, Los Angeles, CA, Larry Neuman, 2014
- **Forensic Mapping with Total Stations**, CAARS Quarterly Training, Fontana, CA, Joel Salinas, 2014
- **CA2RS Annual Conference 2014**, Reconstruction Methods, Gary Cooper, Roger Barrette and Adam Hyde
- **Low Speed Impact Analysis using IIHS & CDR Data**, CAARS Quarterly Training, Mark Wheelchel
- **Vision, Perception, and Attention - Pedestrian Accident Reconstruction Methods**, CAARS Quarterly Training, Jim Flynn
- **Tips, Tools, & Techniques in Collision Reconstruction & Failure Analysis**, CAARS Quarterly Training, Shawn Ray
- **CA2RS Annual Conference 2015, Pedestrian Collision Reconstruction & CDR**, Adam Hyde, Roger Barrette and Ken Engberg
- **Damage Energy Methods**, CAARS Quarterly Training, Toby Gloekler, 2016
- **Photogrammetry**, CAARS Quarterly Training, Lou Peck, 2016
- **Intersection Collisions**, CAARS Quarterly Training, Chris Kauderer, 2016
- **Injury Mechanism and Medical Causation**, CAARS Quarterly Training, Dr. Sarb Dhesi DC, 2016
- **Sleep Deprivation and Driving**, CAARS Quarterly Training, Dr. Sarb Dhesi DC, 2016

- **CA2RS Annual Conference 2016**, Delta-V, Simulations and Case Studies, Principia Engineering
- **Work Zone Crashes**, CAARS Quarterly Training, David Eisenbeisz and Dale Dunlap, 2017
- **Accident Reconstruction & Injury Biomechanics**, John Gardiner and Steve Anderson, 2017
- **Crush/Traffic Signal Timing**, CAARS Quarterly Training, Dan Vomhof III, 2017
- **CA2RS Annual Conference 2017**, Motorcycle Accident Reconstruction and Dynamics, Rollover Reconstruction, Roadway Drag Factor Evaluation, Critical Speed Yaw (CSY) Analysis; MEA Forensics & Dial Engineering
- **Approach and Implementation of an SUAS (Drone) Program for Accident Investigation**, CAARS Quarterly Training, Adam Hyde, 2018
- **Introduction to Pedestrian/Bicycle vs. Auto Collisions**, CAARS Quarterly Training, Dr. Omid Komari, 2018
- **Evaluating Injury Causation in Motor Vehicle Accidents: Applied Biomechanics and Clinical Science**, CAARS Quarterly Training, James Kent, Ph.D., 2018
- **CA2RS Annual Conference 2018**, Human Factors, Heavy Vehicle EDR Update, CDR Update, Crash Safety Research Center, Messerschmidt Safety Consultants, Cooper Barrette Consulting
- **The Math and Physics Behind the Equations Used in Accident Reconstruction**, CAARS Quarterly Training, Dr. Jose Granda, 2019
- **Utilizing Video Evidence in Traffic Investigations**, CAARS Quarterly Training, Andrew Fredericks from INPUT-ACE, 2019
- **Forensic Testing and Analysis of Seat Belts with Case Studies**, CAARS Quarterly Training, Kurt Weiss, 2019

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AFFILIATIONS

California Association of Accident Reconstruction Specialists (CA2RS),

Member, 2002 to present.

Board of Directors, January 2010 to present.

International Network of Collision Reconstructionists (INCR), Member, March 2008 to present.

Orange County Traffic Investigators Association (OCTIA), Member, April 2008 to present.

Orange County Traffic Officer's Association (OCTOA), Member, February 2002 to December 2013.

RELATED TECHNICAL EXPERTISE

Police Officer/Corporal –Santa Ana Police Department. August 1982 to December 2013.

Collision Investigation Unit (CIU) Supervisor - Lead member and supervisor of the Department's Major/Fatal Collision Investigation Call-out Team responsible for the reconstruction of major traffic collisions, from 2003 to December 2013.

Accident Report Review - The review of over 9000 collision reports from 2002 to 2013, as one of the collision report review officers.

Driving Under the Influence – Between 2008 and 2013 I arrested 408 DUI drivers. I received awards each of the last 5 years from Mothers Against Drunk Drivers (MADD), including two Century Awards. I attended the Cavanaugh & Assoc. D.U.I Seminar and the Advanced Roadside Impaired Driver Enforcement (ARIDE, DUI drugs) program.

Police Accident Investigator and Reconstructionist - Investigation of more than 500 traffic collisions as the uniformed, at-scene, police investigator. Investigation of more than 1700 hit & run collisions. The investigation of more than 260 major/fatal collisions, as the lead police investigator, assisting investigator or police supervisor for the purpose of determining primary collision factors, estimating speeds, determining pre- and post-impact trajectories and the general reconstruction of the accident. Taking statements, photographs and measurements, collecting physical evidence, preparing diagrams and collision reports, miscellaneous advanced technical assistance, and court testimony. Traffic collision investigations and reconstructions included non-injury, injury and fatality accidents involving auto-auto, auto-object, auto-pedestrian, auto-bicycle, bicycle-object, auto-truck, truck-pedestrian, truck-motorcycle, truck-bicycle, truck-object, auto-motorcycle, motorcycle-motorcycle, and motorcycle-object.

Fatal/Major Collision Investigations. January 2002 to December 2013, Handled: 79 Investigations, Assisted: 180+ Investigations

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