



Résumé of  
**TILO D. VOITEL**  
Accident Reconstructionist

**Kineticcorp™**

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For over 21 years Mr. Voitel worked as a Police Officer in California and Colorado. Mr. Voitel has investigated over 2,300 traffic collisions. He has testified as an expert witness over 100 times, in both criminal and civil proceedings, in California, Colorado and Nevada courts.

#### **EMPLOYMENT HISTORY**

Accident Reconstructionist, Kineticcorp, LLC, 2010 - Present  
Police Detective, Denver Police Department, Traffic Investigations Bureau 2000 – 2011  
Patrol Officer, Denver Police Department, 1995 – 2000  
Motorcycle Officer, Fullerton, CA Police Department, 1994 – 1995  
Patrol Officer, Fullerton, CA Police Department, 1989 – 1994  
Helicopter Crew Chief/Safety Evaluator, United State Marine Corps, 1983 – 1989

#### **EDUCATION**

Over 900 hours of accident investigation/reconstruction specific training  
Orange County Sheriff's Academy (1990)  
Denver Police Academy (1995)

#### **CERTIFICATIONS**

Accredited Traffic Accident Reconstructionist #1256 – Accreditation Commission for Traffic Accident Reconstruction, received 02/2002 (expires 03/2016).

#### **LICENSES**

Colorado Commercial Driver's License – Class A (motorcycle endorsed)

#### **ACCIDENT RECONSTRUCTION**

Mr. Voitel has extensive experience performing vehicle accident investigations throughout the United States. His hands-on investigative experience includes inspections of hundreds of vehicles: passenger cars, motorcycles, trucks, commercial vehicles and bicycles. Mr. Voitel's experience includes:

- Traffic Signal Timing (familiar with Opticom systems, experienced in analyzing signal timing reports)
- Public Transportation Vehicle Accidents (taxis, buses, light rail)
- Emergency Vehicles Accidents (police, fire and ambulance responding to an emergency) –has investigated over 200 emergency vehicle accidents.
- Vehicle Dynamics Testing (skid, accelerating and crash testing)
- Pedestrian Accident Testing (field testing to validate accident reconstruction methods)
- Visibility Testing (nighttime visibility, visibility obstruction by house, fence, bushes, sun glare, sun position, etc.)
- Mechanical Inspections (determined if mechanical failure contributed to a collision)
- Crush Damage Analysis
- CDR and HV EDR Data Analyses
- Vehicle Rollover Analyses (reconstruction of occupant positions, speeds, ejection portals, seatbelt use)
- Restraint System Inspections

Mr. Voitel has also co-authored publications related to accident reconstruction for the Society of Automotive Engineers (SAE). In addition, Mr. Voitel has taught accident reconstruction classes to attorneys, law enforcement officers and insurance claims professionals.

## **EXPERT TESTIMONY**

As a result of his investigations and experience, Mr. Voitel has testified over 100 times in both criminal and civil court and has been recognized as an expert since 2001. Over the duration of his career, Mr. Voitel has conducted hundreds of witness interviews at the accident scene.

## **PROFESSIONAL AFFILIATIONS**

Society of Automotive Engineers  
International Network of Collision Reconstructionists

## **PUBLICATIONS**

Rose, Nathan A., Neal R. Carter, David Pentecost, **Tilo Voitel**, William Bortles, "Using Data from a DriveCam Video Event Recorder to Reconstruct a Vehicle-to-Vehicle Impact," Paper Number 2013-01-0778, *Society of Automotive Engineers*.

Benefits of 3D Laser Scanning in Vehicle Accident Reconstruction – Technology White Paper for FARO, [www.faro.com](http://www.faro.com)

Using Security Camera Video in Accident Reconstruction – Journal of the Association for Crime Scene Reconstruction, Volume 16, Issue 1, Winter 2010: pages 11-16

Beauchamp, Gray, Hessel, David, Rose, Nathan A., Fenton, Stephen J., **Voitel, Tilo**, "Determining Steering and Braking Levels from Yaw Mark Striations," Paper Number 2009-01-0092, Society of Automotive Engineers, 2009, published in the *SAE International Journal of Passenger Cars – Mechanical Systems* 2(1):291-307.

## **OTHER INTERESTS**

Mr. Voitel is a licensed motorcycle rider, licensed commercial vehicle operator and avid water skier and boater. He is also working towards obtaining his private pilot license in sailplanes.

## **TECHNICAL CONFERENCES AND SEMINARS:**

Heavy Vehicle Crash Reconstruction – Evanston, IL 5/2015 (5 days)  
Preserving and Analyzing Information from Heavy Vehicle EDR's – Evanston, IL 04/2013 (5 days)  
Motorcycle Safety Foundation Rider Course – Aurora 09/2011 (2 days)  
Bosch Level 1 & 2 CDR Technician Course – Greenwood Village (Kineticcorp) 03/2011 (1 day)  
Motorcycle Accident Reconstruction – Golden (AAR) 05/2010 (5 days)  
CDR Data Analyst Course – Golden (CSI) 12/2008 (4 days)  
Photo Modeler User's Course – Denver 10/2008 (3 days)  
Vericom Computer User's Course – Denver 07/2008 (2 days)  
Excel Based Crush Class – Golden (AAR) 05/2008 (5 days)  
CDR Technician Course - Douglas County 05/2008 (1 day)  
SPAR & IAFSM (Annual Conference) – Houston 03/2008 (4 days)  
Scan Station Training with Avatech – Detroit 03/2008 (3 days)  
Colorado Emergency Services, Safety and Prevention Conference – Breckenridge 04/2007 (3 days)  
International Association of Forensic and Security Metrology (Annual Conference) – Houston 03/2007 (2 days)  
Traffic Crash Reconstruction Update – IPTM (Denver) 03/2007 (5 days)  
Highway – Rail Grade Crossing Collision Investigation – BNSF (Denver) 02/2007 (1 day)  
Advanced Collision Diagramming & Animation – Visual Statements (Ft. Collins) 03/2006 (4 days)  
Sokkia Total Station Training – Survey & Construction Supply (Denver, CO by Brian Aregood) – 12/2005 (1 day)  
Advanced Crash Zone – Cad Zone (Denver, CO by Anna Ristau), 12/2005 (2 days)  
Transit Rail Incident Investigation – Transportation Safety Institute (Atlanta, GA.), 06/2005 (1 week)  
Special Problems in Traffic Crash Reconstruction – Institute of Police Technology and Management (IPTM), 04/2005  
Bloodstain and Bullet Pattern Evidence Analysis – Public Agency Training Council, 06/2004 (3 days)  
Crash Conference – ARC/CSI (Las Vegas, NV.), 06/2003 (1 week)  
Advanced Collision Diagramming – Visual Statements, 05/2003 (2 days)  
Rocky Mountain Crash / DUI Conference – RMITS, 05/2003 (4 days)  
Level 4 Accident Reconstruction (Computer Aided) – Colorado State Patrol, 09/2002 (1 week)  
Motorcycle Accident Reconstruction Principles – Rocky Mountain Institute for Transportation Safety, 04/2002 (3 days)  
Crash Data Retrieval Course – IPTM, 02/2002 (3 days)  
Traffic Accident Reconstruction (Level 3) – RMITS, 07/2001 (2 weeks)  
Specialized Training in Horizontal Gaze Nystagmus – Denver Police Department (DPD), 02/2001  
Pedestrian / Bicycle Crash Investigation – IPTM, 12/2000 (1 week)  
Advanced Technical Accident Investigation (Level 2) – RMITS, 08/2000 (2 weeks)  
Intoxilyzer 5000EN Operators Course – DPD, 2000

Police on Mountain Bikes – DPD (through the International Police Mountain Bike Association), 10/1998  
Interview and Interrogation Techniques – National Center for the Study of Unresolved Homicides, 09/1997  
Basic at Scene Accident Investigation (Level 1) – RMITS, 08/1997 (1 week)  
Motorcycle Training (Basic Course) – San Bernardino County Sheriff’s Department, 07/1994  
Drug Recognition and Symptomology – Joe Klein Seminars, 06/1991

**CLASSES AND LECTURES PRESENTED**

Accident Reconstruction lecture at CSI: Regis University – 10/2009  
Basics of Collision Reconstruction for Prosecutors – Colorado District Attorney’s Council, 08/2009  
Testified at Colorado House Sub-Committee hearing – HB09-1340 (Elimination of front plate), 04-2009  
Fatal Investigation for the Street Officer – International Association of Women Police 45<sup>th</sup> Annual Conference, 09-2007  
Motorcycle Accident Reconstruction Principles – RMITS 05/2004  
Traffic Collision Reconstruction, Level 3 – CARTS (annually from 2006-2011)  
Traffic Collision Investigation, Level 2 – CARTS (annually from 2006-2011)  
Traffic Collision Investigation, Level 1 – CARTS (annually from 2006-2011)  
Advanced Collision Investigation – DPD 02/2004  
Basic Collision Investigation – DPD 10/2004  
Basic Collision Investigation – RMITS (11/2003, 02/2004, 11/2004)