

Specialized Professional Competence

Mechanical Engineering
Accident Reconstruction

Vehicle Dynamics
Mechanical Testing

Education

Master of Science, Mechanical Engineering,
Worcester Polytechnic Institute (2007)
Bachelor of Science, Mechanical Engineering,
California State University Fresno (2005)

Professional Experience

Forensic Engineer
Dial Engineering (2014 to present)
Forensic Photogrammetrist
Lightpoint Data (2012 to present)
Collision Reconstructionist
S.D. Lyons, Inc. (2007 to 2014)
Collision Reconstructionist
True Forensics (2004 to 2007)
Research Assistant
Worcester Polytechnic Institute/NHTSA (2006 to 2007)
Test Engineer (Intern)
The Vendo Company (2004)
Design Engineer (Intern)
Apollo Dental Products (2003)

Registration

Traffic Accident Reconstructionist
A.C.T.A.R., #1663

Professional Affiliations

Member, A.C.T.A.R. Governing Board of Directors
Member, Photomodeler Ambassador
Member, American Society of Mechanical Engineers
Member, Society of Automotive Engineers
Member, National Association of Professional Accident Reconstruction Specialists
Member, California Association of Accident Reconstruction Specialists
Tau Beta Pi, National Engineering Honor Society

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Continuing Education

"World Reconstruction Exposition," Motorcycle Crash Test Director, Speaker, and Attendee (2016)

"Damage Energy Methods," California Association of Accident Reconstruction Specialists (2016)

"HVE Forum," Engineering Dynamics Corporation (2015)

Accident Simulation, Engineering Dynamics Corporation (2015)

California Superbike School, Level 1 (2014)

ARC-CSI Crash Conference, Accident Reconstruction Communications Network/Collision Safety Institute (2005, 2014)

California Association of Accident Reconstruction Specialists Annual Conference (2012)

Penguin Roadracing School - Advanced School (2012)

"Crash Data Retrieval Analyst," Collision Safety Institute (2012)

"Crash Data Retrieval Technician Level 1 & 2," Collision Safety Institute (2012)

"PhotoModeler for Collision Reconstruction," DCM Technical Services (2010)

ARC- CSI Crash Conference, Accident Reconstruction Communications Network/Collision Safety Institute (2009)

Southwestern Association of Technical Accident Investigators, Annual Conference (2009)

"Human Factors for Traffic Crash Reconstruction," Accident Dynamics Research Center (2008)

Accelerometer and Skid Test Training Course, Vericom Computers, Inc (2008)

"Traffic Accident Reconstruction II," Northwestern University Traffic Institute (2007)

"Traffic Accident Reconstruction I," Northwestern University Traffic Institute (2007)

"Vehicle Dynamics," Northwestern University Traffic Institute (2007)

"Accident Investigation II," Northwestern University Traffic Institute (2007)

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Continuing Education (Continued)

- "Accident Investigation I," Northwestern University Traffic Institute (2007)
- "Advanced Collision Diagramming-Including 3D Animation," Visual Statement, Inc. (2005)
- "Basic Rider Course," Motorcycle Safety Foundation (2004)

Publications

- "The Accuracy of an Optimized, Practical Close-Range Photogrammetry Method for Vehicular Modeling," Society of Automotive Engineers Paper No. 2016-SS-0072, 2016.
- "Motorcycle Sliding Friction for Accident Investigation," Proceedings of the 10th International Motorcycle Conference, Institute for Motorcycle Safety, Essen, Germany, pp. 62-78, 2014.
- "Glancing and Stopping Behavior of Motorcyclists and Car Drivers at Intersections," Transportation Research Record: Journal of the Transportation Research Board, No. 2265, Transportation Research Board of the National Academies, Washington, DC., 2011, pp. 81-88. (with J. Muttart, S. Guderian, W. Bartlett, L. Ton, C. Kauderer, D. Fisher, and J. Manning)
- "Influence of Riding Experience on Glance Behavior, Brake Response Time and Deceleration Rates by Drivers and Motorcyclists," Sixth International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Cologne, Germany, pp. 461-468, 2014. (with J. Muttart, D. Fisher, C. Kauderer, W. Bartlett, S. Guderian, L. Ton, and M. Muttart)
- "Dynamic Failure Properties of the Porcine Medial Collateral Ligament Bone Complex for Predicting Injury in Automotive Collisions," The Open Biomedical Engineering Journal, Vol. 4, pp. 77-84, 2010. (with K. Billiar, M. Ray)
- "Dynamic Failure Properties of the Porcine Medial Collateral Ligament: Predicting Human Injury in High Speed Frontal Automotive Collisions," M.S. Thesis, Worcester Polytechnic Institute, 2007.
- "Pole Impact Analysis," (Software) True Forensics, 2007.
- "Low Speed Impact Analysis," (Software) True Forensics, 2005.

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Presentations

- "Photogrammetry Methods for Collision Reconstruction," California Association of Accident Reconstruction Specialists, Vacaville/Glendale, 2016.
- "Motorcycle Collision Reconstruction: PRT, Braking, and Sliding Friction," World Reconstruction Exposition, Orlando, 2016.
- "Human Factors Research For Motorcycle Collision Reconstruction", Interactive Driver Response Research User Forum, San Diego, 2016.
- "Forensic Photogrammetry," California State University, Los Angeles, 2015.
- "Analyzing Low-Speed Impacts with EDR Data and Photogrammetry," New England Association of Fraud Investigators, Worcester, Massachusetts, 2015.
- "Motorcycles: Fundamentals and Dynamics," "Motorcycle Inspection for Collision Reconstruction," and "Motorcycle Collision Reconstruction Techniques," Southwest Association of Technical Accident Investigators, Las Vegas, Nevada, 2015.
- "Motorcycle Sliding Friction for Accident Investigation," Institute for Motorcycle Safety: 10th International Motorcycle Conference, Cologne, Germany, 2014.
- "Photogrammetric Analysis of Crash Tests," National Association of Professional Accident Reconstruction Specialists Joint Conference, Portland, Maine, 2014.
- "Motorcycle Sliding Friction," Accident Reconstruction Communications Network/Collision Safety Institute, Las Vegas, Nevada, 2014.
- "Motorcycle Inspection for Collision Reconstruction," California Association of Accident Reconstruction Specialists Annual Conference, South Lake Tahoe, California, 2012.
- "Motorcycle Sliding Friction: Literature Review and New Data," California Association of Accident Reconstruction Specialists Annual Conference, South Lake Tahoe, California, 2012.
- "Motorcycle Rider Response Evaluation," Southwestern Association of Technical Accident Investigators' Spring Conference, Laughlin, Nevada, 2009.
- "Low Speed Impacts," Connecticut Association of Auto Theft and Arson Investigators, Wilmington, Connecticut, 2009.
- "Analyzing Automobile Collision Damage," Rhode Island State Police, Providence, Rhode Island, 2008.