



## Jon B. Landerville

**MSME, PE**

### Vice President, Accident Reconstruction

#### Department

Accident Reconstruction & Forensic Animation

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#### Locations

Los Angeles, CA

## Biography

Mr. Landerville has worked in the accident reconstruction field for over 32 years. He has conducted over 6,000 accident reconstructions, including vehicle inspections, site inspections, and advanced computer simulations. Mr. Landerville has developed expertise in several cutting-edge reconstruction techniques, including three-dimensional computer animations and visibility re-enactments.

He has testified in numerous trials and has demonstrated expertise in the use of computer simulation and animation to explain complex accident causation elements in a clear and understandable manner.

Mr. Landerville earned a Bachelor of Science degree in Mechanical Engineering from California State University, Long Beach, in 1987, with a minor in Applied Mathematics. Upon graduating, he was awarded a full academic scholarship from Hughes Aircraft Company (Howard Hughes Fellowship). He received his Master of Science degree in Mechanical Engineering from the University of Southern California (USC) in 1989.

A Registered Professional Engineer (P.E.) in the State of California since 1991, Mr. Landerville also holds certification from the Accreditation Commission for Traffic Accident Reconstruction (ACTAR). Mr. Landerville is a member of several professional groups and honor societies.

## Credentials

- MSME | Master of Science - Mechanical Engineering
- PE | Professional Engineer
- Accreditation Commission of Traffic Accident Reconstructionists

## Representative Consulting Assignments

- MV Accident Reconstruction | Preserve and analyze collision evidence in order to determine causation factors.

## Professional Experience

- 2022 - Current | Vice President, Accident Reconstruction Services | YA Engineering Services
- 2008 - 2022 | President | Momentum Engineering Corp.
- 2001 - 2008 | Vice President | Vector Scientific Inc.
- 2000 - 2001 | Sr. Forensic Engineer | Knott Labs
- 1992 - 2000 | Sr. Forensic Engineer | Vollmer-Gray Engineering Labs
- 1987 - 1992 | Sr. Engineer | Hughes Aircraft Company
- 1986 - 1987 | Test Engineer | B.R. Labs Inc
- 1985 - 1986 | Materials Engineer | Signal Circuits Inc.
- 1984 - 1985 | Jr. Engineer | Severy Inc.

## Area of Practice

- Accident Reconstruction

## Publications and Presentations

- 2022 - Nguyen, B., Fatzinger, E., Tovar, J., and Landerville, J., "Using PC-Crash to Analyze Motorcycle Slide to Stop Dynamics", SAE Publication
- 2021 - Nguyen, B., Famiglietti, N., Khan, O., Hoang, R. and Landerville, J., "Testing and Analysis of Lane Departure Warning and Lane Keeping Assist System Response", SAE Publication
- 2021 - Fatzinger, E., Landerville, J., Tovar, J., and Nguyen, B., "Validation of a PC-Crash Multibody Sport Bike Motorcycle Model" , SAE Publication
- 2020 - Nicholas Famiglietti, Benjamin Nguyen, Edward Fatzinger, Jon Landerville, "Bicycle Braking Performance Testing and Analysis", SAE Publication
- 2020 - Omair Siddiqui, Nicholas Famiglietti, Benjamin Nguyen, Ryan Hoang, Jon Landerville, "Empirical Study of the Braking Performance of Pedestrian Autonomous Emergency Braking (P-AEB)", SAE Publication
- 2020 - Omair Siddiqui, Daniel Simacek, Ryan Hoang, Nicholas Famiglietti, Benjamin Nguyen, Jon Landerville, "Characterizing Regenerative Coast-Down Deceleration in Tesla Model 3, S, and X", SAE Publication
- 2020 - Fatzinger, E.C., Landerville J.B., "Using Vehicle EDR Data to Calculate Motorcycle Delta-V in Motorcycle-Vehicle Lateral Front End Impacts", SAE Publication
- 2020 - Nicholas Famiglietti, Ryan Hoang, Edward Fatzinger, Jon Landerville, "Evaluation of General Motors Event Data Recorder Performance in Semi-Trailer Rear Underride Collisions", SAE Publication
- 2019 - Fatzinger, E.C., Landerville J.B., Bonsall J.S., Simacek D.S., "An Analysis of Sport Bike Motorcycle Dynamics during Front Wheel Over-Braking", SAE Publication
- 2018 - Fatzinger, E.C., Landerville J.B., "An Analysis of EDR Data in Kawasaki Ninja ZX-6R and ZX-10R Motorcycles Equipped with ABS (KIBS) and Traction Control (KTRC)", SAE Publication
- 2017 - Fatzinger, E.C., Landerville J.B., "An Analysis of EDR Data in Kawasaki Ninja 300 (EX300) Motorcycles", SAE Publication

## Education

- CSULB - Bachelor of Science - Mechanical Engineering - Long Beach - California
- USC - Master of Science - Mechanical Engineering - Los Angeles - California
- Factors That Influence Nighttime Recognition, CSS - March 2022
- Accident Reconstruction of Autonomous Driving Vehicles, SAE - January 2019
- Applied Vehicle Dynamics, SAE - December 2018
- Driver Distraction from Electronic Devices: Insights and Implications, SAE - 2017
- CAARS Conferences - Multi-year
- SATAL Conference and Crash Tests - Multi-year
- ARC Accident Reconstruction Conference - Multi-year
- CDR Technician Certification Course - April 2009
- Applied Brake Controls: ABS, TCS, and ESC Seminar - January 2007
- Detroit Diesel DDEC Reports & Data Extraction - December 2006
- Tire and Wheel Safety Issues, SAE - December 2004
- The Tire as a Vehicle Component, SAE - December 2004

- UCR Tire Failure Analysis in Traffic Accident Investigations - 2003
- Accident Reconstruction TOPTEC: Heavy Truck Rollover & Collision Avoidance - April 2003
- Accident Reconstruction TOPTEC: Passenger Vehicle Rollover - April 2002
- Accident Reconstruction TOPTEC: Special Topics - May 2001
- Commercial Truck Driving Course - February-March 2001
- Braking Performance of Heavy Vehicles, SAE - December 2000
- Accident Reconstruction: State of the Art TOPTEC, SAE - December 1999
- Passenger Car Rollover TOPTEC, SAE - January 1999
- Sport Utility Vehicle Safety TOPTEC, SAE - December 1997
- Low Speed Collision TOPTEC, SAE - August 1996
- Automobile Vehicle Dynamics, SAE - January 1994
- I-CAR Collision Repair Course - August-September 1994
- Heavy Vehicle Rollovers: A Safety Issue TOPTEC, SAE - April 1993
- Vehicle Rollovers TOPTEC, SAE - September 1992

## Affiliations

- California Association of Accident Reconstruction Specialists (CA2RS)
- Society of Automotive Engineers
- American Society of Mechanical Engineers
- Southwest Association of Technical Accident Investigators
- Accreditation Commission for Traffic Accident Reconstruction

## Licenses

- M27388 - California - Mechanical Engineer