



## Edward C. Fatzinger, Jr.

MS, PE

### Director, Accident Reconstruction

#### Department

Accident Reconstruction & Forensic Animation

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#### Locations

Los Angeles, CA

## Biography

Mr. Fatzinger is a Senior Forensic Engineer involved in all aspects of accident reconstruction and collision analysis. He has extensive experience using the PC-Crash accident reconstruction program and has performed vehicle tests ranging from handling and braking tests to full-scale crash tests. He is also proficient at conducting failure analyses of vehicle components and systems. Mr. Fatzinger received a Master of Science (M.S.) in Aerospace Engineering with an emphasis in Mechanics of Materials and Structural Testing from Embry Riddle University in 2001. He received a Bachelor of Science in Mechanical Engineering (B.S.M.E.) from West Virginia University in 1997. In addition to his advanced engineering degrees, Mr. Fatzinger has over ten years of experience as a mechanic in the repair and maintenance of both automobiles and motorcycles. Currently, he holds ASE certifications in Brakes, Suspension, and Steering. Mr. Fatzinger is an experienced motorcycle rider with over 30 years of experience specializing in motorcycle accident reconstruction and safety. He has conducted numerous research studies and has published in the area of motorcycle handling and dynamics. Mr. Fatzinger is also at the forefront of motorcycle EDR research and data acquisition. He has published numerous papers on Kawasaki EDR and BRP (Can-Am, Ski-Doo, Sea-Doo) EDR systems.

## Credentials

- MS | Master of Science
- PE | Professional Engineer
- ACTAR (Accreditation Commission for Traffic Accident Reconstruction)
- ASE Mechanic in Suspension, Steering, and Brakes
- CDR Technician and Data Analyst

## Representative Consulting Assignments

- Motorcycle crash testing
- Motorcycle dynamics and handling testing
- Motorcycle ADAS testing
- Kawasaki EDR

## Professional Experience

- 2022 - Current | Senior Forensic Engineer | YA Engineering Services
- 2008 - 2022 | Senior Forensic Engineer | Momentum Engineering Corp.
- 2001 - 2008 | Senior Forensic Engineer | Vector Scientific, Inc.
- 2001 - 2001 | Forensic Engineer | Knott Laboratory, LLC

## Area of Practice

- Accident Reconstruction

## Publications and Presentations

- 2022 - Nguyen, B.M., Fatzinger, E.C., Tovar J., Landerville J., "Using PC-

- Crash to Analyze Motorcycle Slide to Stop Dynamics”, SAE Publication
- 2021 - Fatzinger, E.C., Landerville J.B., Tovar J., Nguyen B., “Validation of a PC-Crash Multibody Sport Bike Motorcycle Model” , 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
  - 2019 - Fatzinger, E.C., “Power Loss Issues Related to EDR Data in 2013-2017 Kawasaki Ninja 300 and ZX-6R Motorcycles”, Collision Magazine, Volume 12, Issue 1
  - 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
  - 2016 - Fatzinger, E.C., Shaw T.L., Landerville J.B., “The Effects of Power Interruption on Electronic Needle-Display Motorcycle Speedometers”, SAE Publication
  - November 2009 - Landerville J.B., Fatzinger E.C., Wang P.S., “Disputed Red Light accidents: A primer on signal control” (Advocate Article), Consumer Attorneys Association of Los Angeles
  - August 2005 - Raymond D.E., Fatzinger E.C., Connors T.J., Wheeler J.B., Occupant Kinematic Analysis of an Unbelted Minivan Passenger: A Free Body Approach, Proceedings of the International Society of Biomechanics XXth Congress and the American Society of Biomechanics 29th Meeting, Cleveland, OH

## Education

- West Virginia University - Bachelor of Science - Mechanical Engineering - Morgantown - West Virginia
- Embry-Riddle Aeronautical University - Master of Science - Aerospace Engineering - Daytona Beach - Florida

## Affiliations

- SAE (Accident Reconstruction Committee Member)
- SATAI
- NAPARS
- AMA

## Licenses

- M32561 - California - Mechanical Engineering
  - 027499 - Nevada - Mechanical Engineering
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