



Stephan DiBiase

Regional Manager and Senior Managing Accident Reconstructionist

Department

Accident Reconstruction & Forensic Animation

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Locations

San Diego, CA

Biography

As a mechanical engineer with more than two decades of experience in the automotive engineering field, Mr. DiBiase is a valuable member of YA Engineering Services. He was a Senior Forensic Engineer at Momentum Engineering Corp from 2013-2023. He has participated in hundreds of projects related to accident reconstruction, where he conducts vehicle inspections, site inspections using 3-dimensional LIDAR scanning and vehicle downloads. He also applies advanced computer simulations, data acquisition, scripting, processing, plotting, and exhibit preparation.

Mr. DiBiase holds a Bachelor of Science degree in Mechanical Engineering from Kettering University, which he obtained in 1999. He has a background in design and manufacturing for chassis systems and has worked in advanced engineering research and development OEM departments. He has performed advanced computer simulations for advanced suspension, steering, driveline, and brake system designs, as well as proof of concepts. He has also achieved a Level 3 TRC Vehicle Dynamics driver certification for automotive systems evaluation. He has expertise in rollovers and vehicle handling, among other types of vehicular accidents.

Credentials

- SAE - Accident Reconstruction Certificate Program, 2020
- CDR - Technician (Crash Data Group), 2015
- CDR - Data Analyst (Crash Data Group), 2015
- PC-Crash 2013, 2016
- Most on Fire Kettering University International Club Member, 1999
- Goethe Certificate of German language fluency, Bogenhofen, Braunau Austria, (1990)

Professional Experience

- 2023 - Current | Senior Forensic Engineer | YA Engineering Services
- 2013 - 2023 | Senior Forensic Engineer | Momentum Engineering Corp.
- 1999 - 2007 | Forensic Engineer/Accident Reconstructionist | Tandy Engineering & Assoc.
- 2002 - 2005 | Chassis Systems ISO Managing Coordinator; NVH and Vehicle Dynamics Development Engineer | Visteon NVH Chassis Advanced Technology
- 1999 - 2002 | Advanced Product Design Engineer, CAE Engineering | Visteon Chassis, Advanced Technology
- 1995 - 1999 | GMI Mechanical Engineering CO-OP | Bentler Automotive; BMW Motor Corporation

Area of Practice

- Accident Reconstruction

Publications and Presentations

- 2021 - Siddiqui, O., DiBiase, S., Hoang, R., Nguyen, B. et al., "Evaluating the Accuracy and Reliability of Bicycle GPS Devices", SAE Technical Paper
- No. - Anderson, J., Gee, R., Germane, G., Henry, K. T. Hoover, S. DiBiase, "Analysis of a Real-World High Speed Rollover Crash from a Video Record and Physical Evidence"
- January 2005 - Stephan DiBiase, "North American International Auto Show a Source of Inspiration for Visteon Employees", Visteon Today
- 1999 - Stephan DiBiase, "Cumulative Fatigue Damage Correlation and Solution with Durability Test Track, Laboratory and FEA for a Production Axle", Benteler Automotive & Kettering University Thesis

Education

- Kettering University - Bachelor of Science - Mechanical Engineering (BSME), with Automotive Emphasis - Flint - Michigan
- NAPARS, Annual Joint Conference - 2020
- SAE, Fundamentals of Vehicle Dynamics - 2020
- SAE WCX Summit - 2020
- INPUT ACE - 2020
- AV20, Autonomous Vehicles, Silicone Valley Conference - 2020
- SAE, Photogrammetry and Analysis of Digital Media - 2019
- SAE, Applying Automotive EDR Data to Traffic Crash Reconstruction - 2019
- Engineering Dynamics Corporation—HVE Forum (EDSMAC/EDCRASH Training) - 2019
- Crash Safety Solutions, Human Factors in Traffic Crashes-Analysis of Driver's Responses - 2019
- SAE Winter Conference - 2019
- CA2RS 2nd Quarter Training - 2018
- Engineering Dynamics Corporation—HVE Forum (EDSMAC/EDCRASH/SIMON) - 2018
- ARC-CSI Crash Conference - 2017
- PC-CRASH Vancouver Workshop, Advanced Features - 2016
- Collision Safety Institute - CDR Data Analyst Training - 2015
- Collision Safety Institute - CDR Technician Training - 2015
- SAE Vehicle Crash Reconstruction Methods - 2015
- SAE Reconstruction and Analysis of Motorcycle Crashes - 2015
- SAE Reconstruction and Analysis of Rollover Crashes of Light Vehicles - 2015
- ARC-CSI Crash Conference - 2014
- Engineering Dynamics Corporation (EDC)—Reconstruction EDCRASH Training Course - 2014
- PC-Crash Training - 2013
- NVH for Automotive Applications, University of Michigan, Dearborn - 2004
- SAE, Vibration Applications - 2004
- Drivers Development Seminars for (vehicle dynamics) limit handling & drivers' consistency, Levels I, II, III, Honda TRC, OH - 2000-2002
- Multitmatic Vehicle Dynamics Evaluation & Tuning - 2001
- Systems Engineering by Hatli Pirabli - 2000
- Esslingen Fachhochschule, Stuttgart, Germany, Automotive Engineering - 1997

Affiliations

- SAE International (formerly Society of Automotive Engineers)

- California Association of Accident Reconstruction Specialists (CAARS)
 - Southwest Association of Technical Accident Investigators (SATAI)
 - Management Honor Society, Kettering University
 - KU International Club President
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