



**Exponent®**  
Engineering & Scientific Consulting

## Jason Skiera, P.E.

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### Professional Profile

Mr. Skiera's areas of expertise include the investigation, analysis, and reconstruction of motor-vehicle collisions involving passenger cars, SUVs, light trucks, and commercial vehicles. He has extensive expertise in the investigation and analysis of vehicle rollover crashes including assessing vehicle handling, tire/component failure, rollover dynamics, and rollover stability.

Mr. Skiera has received specialized training in accident reconstruction and vehicle dynamics analysis and is experienced in analyzing complex accident situations including low- and high-speed frontal, rear, and side impact collisions, as well as pole and guardrail impacts. In addition, he has participated in numerous physical demonstrations including full scale low- and high-speed crash testing, component testing, and vehicle handling demonstrations. Mr. Skiera's training includes analyzing computer simulations used to evaluate vehicle dynamics, collisions, and rollovers.

Prior to joining Exponent, Mr. Skiera was employed in the accident reconstruction field and provided engineering consulting and support services to clients in a variety of complex cases. This level of support included performing vehicle and site inspections, digitizing vehicle profiles, site surveys, and/or photogrammetric evaluations. Additionally, projects have required testing to be completed in order to demonstrate a physical principle or law of physics. Mr. Skiera's expertise includes problem solving related to mechanical engineering, accident reconstruction, collision severity, vehicle dynamics, and vehicle handling response.

### Academic Credentials & Professional Honors

M.S., Mechanical Engineering, Wayne State University, 2008

B.S., Mechanical Engineering, Michigan Technological University, 2004

### Licenses and Certifications

Certified Crash Data Retrieval (CDR) Analyst

Certified Crash Data Retrieval (CDR) Technician

### Prior Experience

Senior Mechanical Engineer, Vector Scientific Inc., 2009-2013

Staff Engineer, M.P. Holcomb Engineering Corporation, 2005-2009

Engineer Intern, M.P. Holcomb Engineering Corporation, 2004

Engineer Co-op, M.P. Holcomb Engineering Corporation, 2003-2004

## Professional Affiliations

Society of Automotive Engineers—SAE

Southwestern Association of Technical Accident Investigators—SATAI

## Publications

Skiera, J., Crosby, C., Bare, C., Paradiso, M., Campbell, G., *"Passenger Vehicle Dynamic Response and Characterization of Side Structure during Low- to Moderate-Speed Side Impacts,"* SAE Technical Paper 2019-01-0420. SAE World Congress, Detroit MI, April 2019.

Crosby, C., Skiera, J., Bare, C., Como, S., McDowell, E., *"Passenger Vehicle Response and Damage Characteristics of Front and Rear Structures during Low- to Moderate-Speed Impacts,"* SAE Technical Paper 2019-01-0415. SAE World Congress, Detroit MI, April 2019.

Larson, R., Croteau, J., Bare, C., Zolock, J., Peterson, D., Skiera, J., et al., *"Steering Maneuver with Furrow-Tripped Rollovers of a Pickup and Passenger Car,"* SAE Technical Paper 2015-01-1477. SAE World Congress, Detroit MI, April 2015.

## Additional Education & Training

Heavy Vehicle Air Brake Training, Bendix Commercial Vehicle Systems, 2023

Accessing and Interpreting Heavy Vehicle Event Data Recorders, Society of Automotive Engineers, 2017

EDR Summit, Collision Publishing, Inc., 2017

Crash Data Retrieval (CDR) Operations & Analysis and Applications Update, Crash Data Specialists LLC, 2015

HVE Forum, Engineering Dynamics Corporation, 2015

ARC-CSI Crash Conference, 2012

Crash Data Retrieval (CDR) Analyst Course, Collision Safety Institute, 2009

Applied Vehicle Dynamics, Society of Automotive Engineers, 2008

PhotoModeler Collision Reconstruction, EOS Systems, 2008

Mechanics of Heavy-Duty Truck Systems, University of Michigan, 2007

Tire and Wheel Safety Issues, Society of Automotive Engineers, 2006

The Tire as a Vehicle Component, Society of Automotive Engineers, 2006

Vehicle Dynamics for Passenger Cars and Light Trucks, Society of Automotive Engineers, 2005

Traffic Accident Reconstruction, Northwestern University Traffic Institute, 2005