



Résumé of
Daniel Koch, B.S.

Kineticcorp™

6070 Greenwood Plaza Blvd., Suite 200
Greenwood Village, Colorado 80111
Tel: 303.733.1888
Fax: 303.733.1902
dkoch@kineticcorp.com

EXPERIENCE: **Engineer** - Accident Reconstruction: Kineticcorp, LLC, Denver, Colorado, August 2009 to Present.
Engineering Intern – NASA Dryden Flight Research Center, Edwards, California.

EDUCATION: **B.S. Mechanical Engineering** - University of Colorado at Denver, December 2009.

AWARDS: **American Society of Mechanical Engineers (ASME)**, Old Guard Presenter and Finalist, ASME International Mechanical Engineering Congress and Expo, November 2008.

American Society of Mechanical Engineers (ASME), Old Guard Presenter and District Champion, April 2008.

FORENSIC ENGINEERING: Throughout his education and his employment with Kineticcorp, Mr. Koch has gained experience in the following areas related to accident reconstruction:

- Mr. Koch has investigated accidents involving a variety of vehicles including tractor-trailers, buses, farm equipment, motorcycles, bicycles and passenger cars. Many of these accidents also involved pedestrians.
- Mr. Koch has conducted full scale testing of numerous vehicles, including yaw testing, tire separations and component level testing.

RESEARCH: Mr. Koch's current areas of research include:

- The effects of weight loading on vehicle dynamics.
- Tire disablements on passenger vehicles at highway speeds.

OTHER INTERESTS: Mr. Koch is an automotive enthusiast. He was a Pit Crew Member for B&G Racing at the time they set a World Land Speed Record, Bonneville Salt Flats, Utah, July 2007. He has experience in the tuning of racecar engines, safety equipment, and the rebuilding of classic car engines.

PROFESSIONAL AFFILIATIONS: American Society of Mechanical Engineers
Experiential Aircraft Association (EAA)
Society of Automotive Engineers

Publications

1. Beauchamp, G., Pentecost, D., Koch, D., and Rose, N., "The Relationship Between Tire Mark Striations and Tire Forces," *SAE Int. J. Trans. Safety* 4(1):134-150, 2016, doi:10.4271/2016-01-1479.
2. Neale, William T.C., David Hessel, Daniel Koch, "Determining Position and Speed through Pixel Tracking and 2D Coordinate Transformation in a 3D Environment." SAE Paper 2016-010-1478. Detroit, MI. (2016).
3. Beauchamp, G., Koch, D. and Thornton, D. E., "A Comparison of 25 High Speed Tire Disablements Involving Full and Partial Tread Separations," *SAE Int. J. Trans. Safety* 1(2):2013, doi:10.4271/2013-01-0776.



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Presentations

1. "Determining Position and Speed through Pixel Tracking and 2D Coordinate Transformation in a 3D Environment." SAE Technical Paper Presentation, 2016 Society of Automotive Engineers World Congress, Detroit, MI, April 13, 2016.

Technical Conferences, Training and Seminars

1. "Vehicle Dynamics for passenger Cars and Light Trucks" conducted by Richard Lundstrom, Society of Automotive Engineers, Troy, Michigan, August, 2016.
2. "Vehicle Crash Reconstruction Methods," conducted by Ray M. Brach and R. Matthew Brach, Society of Automotive Engineers, Troy, Michigan, June, 2015.
3. Motorcycle Safety Foundation – Basic Rider Course. T3RG Motorcycle Schools, Aurora, CO, September 2011.
4. Bosch Crash Data Retrieval (CDR) System, Technician Level 1 and Level 2 Courses, Kineticorp, LLC, Greenwood Village, Colorado, March 2011.