



Curriculum Vitae

Kevin C. Henry, P.E.



Professional Profile

Mr. Henry is a Professional Engineer and consultant with over 20 years of experience, education, and training in the investigation and engineering analysis of vehicle collisions and other Transportation Safety incidents. He earned a B.S. in Mechanical Engineering and an M.S. in Civil Engineering, providing background in the automotive, roadway, and driver factors related to collision events. His extensive background in research and publications as an author in the engineering literature reflect his dedication to understanding the vehicle dynamics and physics principles involved in single-vehicle crashes and multi-vehicle collisions involving all modes of transportation including commercial vehicles and heavy trucks, pedestrians, bicycles, motorcycles, automobiles, and transit.

Over the course of his career, Mr. Henry has completed field investigations and inspections in over 45 states and international locations, has reconstructed hundreds of collisions, and has extensive experience in vehicle download data systems, unmanned aerial vehicle mapping, forensic photography and photogrammetry, computational analysis, 3D modeling, and visual demonstratives using proven scientific methodologies and advanced data technology. Mr. Henry has testified as an expert in his field.

Licensure and Professional Certification

Professional Engineer, State of Utah, #5048378

Accredited Accident Reconstructionist, #3512
Accreditation Commission for Traffic Accident Reconstruction (ACTAR)

Certified Bosch Crash Data Retrieval (CDR) Technician

Remote Pilot – Small Unmanned Aircraft System
Federal Aviation Administration

Contact Information

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Education

Master of Science in Civil Engineering
Brigham Young University
Provo, Utah

Bachelor of Science in Mechanical Engineering
Brigham Young University
Provo, Utah

Associate of Science in Mechanical Engineering
Ricks College
Rexburg, Idaho

Work Experience

Focus Forensics, LLC
Senior Engineer: 2020-Present

Collision Safety Engineering
Engineer: 2013-2020

Germane Engineering
Engineer: 2002-2013
Assistant Engineer: 1999-2002

Benson Engineering
Engineer: 2000



Professional Affiliations

National Association of Professional Accident Reconstruction Specialists, Inc. (NAPARS), Member

Society of Automotive Engineers (SAE)

Professional Development

Bendix

- Comprehensive Air Brake Training Program in the Operation and Maintenance of Heavy Duty Vehicle Air Brake Systems and Components, 2020

Collision Safety Institute/ ARC

- Crash Data Retrieval Technician Training, 2014

Collision Safety Solutions, LLC

- IDRR User Forum and Training, 2021
- Human Factors for Traffic Crash Reconstruction, 2021

Focus Forensics, LLC

- Transportation Engineering and Accident Reconstruction Insights, 2022

Lightpoint Learning

- Motorcycle Collision Reconstruction, 2022
- Point Clouds in Collision Reconstruction: Speed from Video and Crush from Photos, 2022

MEA Forensic

- PC-Crash Software Training, 2016
- PC-Crash 201: Using Mutlitbodies. 2022

Society of Automotive Engineers (SAE)

- Vehicle Crash Reconstruction Methods, 2014
- Applying Automotive EDR Data to Traffic Crash Reconstruction, 2017
- Introduction to Brake Controls: ABS, TCS and ESC, 2019
- Fundamentals of Vehicle Dynamics, 2020

Utah Department of Public Safety (UHP)

- Vehicle Safety Inspection for Passenger Vehicles, Light Duty Trucks, Motorcycles and ATVs, 2019
- Vehicle Safety Inspection for Tractor, Trailers and Buses, 2019

Virtual Crash

- Collision Simulation and Reconstruction, 2021

World Reconstruction Exposition (WREX)

- World Reconstruction Exposition (WREX), 2023

Publications

Henry, K.C., Germane, G.J., Luepke, P.A., Carter, J.W., "Measurements and Modeling of Rollover Airborne Trajectories," *SAE Int. J. Passeng. Cars – Mech. Syst.* 2(1): 371-388, 2009

Anderson, J.D., Gee, R.S., Germane, G.J., Henry, K.C., DiBiase, S., Hoover, T., "Analysis of a Real-World High Speed Rollover Crash from a Video Record and Physical Evidence," *Society of Automotive Engineers* 2008-01-1486, 2008

Carter, J.W., Luepke, P.A., Henry, K.C., Germane, G.J., Smith, J.W., "Rollover Dynamics: An Explanation of the Fundamentals," *SAE Int. J. Passeng. Cars – Mech. Syst.* 1(1): 80-104, 2008

Luepke, P.A., Carter, J.W., Henry, K.C., Germane, G.J., Smith, J.W., "Rollover Crash Tests on Dirt: An Examination of Rollover Dynamics," *SAE Int. J. Passeng. Cars – Mech. Syst.* 1(1): 18-30, 2008

Henry, K.C., "Soft-Surface Roll Mechanics Parameters for Light Vehicle Rollover Accident Reconstruction," *Brigham Young University – M.S. Thesis*, 2007

Germane, G.J., Munson, T.S., Henry, K.C., "Side Impact Motor Vehicle Structural Characteristics from Crash Tests," *Society of Automotive Engineers* 2003-01-0495. 2003

Peterson, B., Erath, B., Henry, K., Lyon, M., Walker, B., Powell, N., Fowkes, K., Bowman, W.J., "Development of Micro Air Vehicle for Maximum Endurance and Minimum Size," *41st Aerospace Sciences Meeting and Exhibit*, A1AA 2003-416, 2003