



**Practice Areas:**  
Accident Reconstruction,  
Mechanical Engineering

Steve@EntropyEC.com



## Stephen D. Knapp, PE

Mr. Knapp is a licensed professional engineer specializing in vehicle accident reconstruction. He has inspected hundreds of vehicles and has extensive experience downloading accident related data from vehicles equipped with crash data recording air bag modules. His expertise extends to vehicle fuel injection and drive train control systems as well as electronic control module system diagnostics and failure analysis, including the determination of vehicle fire cause and origin.

### LICENSURE & EDUCATION

Mr. Knapp is a Licensed Professional Engineer in the State of Colorado.

B.Sc. Mechanical Engineering, University of Colorado at Denver, May 1999, specializing in vehicle design.  
Dean's list 1997-1998.

Team member of Society of Automotive Engineers (SAE) Mini-Baja 1998,

Team Leader SAE Mini-Baja 1999. The SAE Mini-Baja program involved design, development, fabrication, testing and manufacturing of suspension, brakes, drive train, chassis and steering components for a single person off-road vehicle.

### CERTIFICATION

Accreditation Commission For Traffic Accident Reconstruction (ACTAR) September 18th 2006

Photo Modeler Collision Investigation Denver, Colorado September 25th – 27th 2006

PC CRASH and PC-RECT engineering software training, Las Vegas, Nevada, December 8-9, 2000.

Certified in Hazardous Waste Operations and Emergency Response (HAZWOPER) OSHA 29 CFR 1910.120(e)

### WORK HISTORY

Project Engineer, *Entropy Engineering Corp*, 2008 to present

Project Engineer, *Western Engineering & Research Corporation*, April 2006 to 2008

Engineer, *Knott Laboratory, LLC*, Centennial, Colorado, July 1999 to 2006

### VEHICLE ACCIDENT RECONSTRUCTION

Mr. Knapp's experience includes the evaluation and analysis of vehicle crush damage, occupant dynamics, crash worthiness, occupant compartment intrusion, "black box" crash data retrieval, and product failure analysis. His accident reconstruction skills also include estimating forces associated with low speed impacts, documenting accident scene evidence, analyzing visibility and accident avoidance issues utilizing time/distance and human factor relationships, and reconstructing commercial, multi-vehicle, bicycle and pedestrian accidents.

Mr. Knapp has investigated and evaluated cases to determine critical issues involving vehicles speed, restraint usage, accident avoidance, headlight illumination, and vehicle defects. He has investigated failure and defect cases involving vehicle braking systems, tires, engine, drive train, suspension, seatbelts, and supplemental restraint systems (SRS) airbag deployment. Mr. Knapp is also skilled in PC-Crash computer simulation software which is used to analyze time/distance relationships to reconstruct and analyze accidents.

### AFFILIATIONS

Mr. Knapp is a member of the following technical and professional societies:

*SAE – Society of Automotive Engineers*

*ASME – American Society of Mechanical Engineers*