



STEVEN F. TETERUS, ACTAR

PROFESSIONAL BIOGRAPHICAL OUTLINE

BACKGROUND

Mr. Teterus is a forensic scientist and accident reconstructionist specializing in the reconstruction of motor vehicle collisions. He has training and experience in vehicle dynamics, vehicle suspension design, and the operation and maintenance of vehicle subsystems including steering, suspension, braking, and powertrain systems. Mr. Teterus specializes in collisions involving vehicle performance issues, including suspected component failures and the physical limitations of vehicle performance. He is also experienced in constructing scene diagrams and drawings utilizing computer aided design software, is certified as a BOSCH Crash Data Retrieval (CDR) technician, and is experienced in documenting evidence utilizing three-dimensional laser scanning. He is accredited as a Traffic Accident Reconstructionist by the Accreditation Committee for Traffic Accident Reconstruction (ACTAR #3704). Mr. Teterus relies on his educational background in mechanical engineering to understand the abilities and limitations of modern vehicle performance and vehicle subsystem failures as they apply to accident reconstruction.

Mr. Teterus earned a Bachelor of Science in Mechanical Engineering at Temple University, Philadelphia, Pennsylvania. As an engineering student, he designed a suspension system for Temple University's Formula Society of Automotive Engineers (FSAE) competition vehicle. As a motorsport and automotive enthusiast, Mr. Teterus remains current on vehicle design trends and industry innovations. He has gained years of hands-on experience in vehicle maintenance, repair, and performance enhancement through a combination of working for a vehicle performance and repair shop and repairing and enhancing his own vehicles. In addition, Mr. Teterus' understanding of vehicle behavior at the limits of driver control is enhanced by his driving experience at Sports Car Club of America (SCCA) autocross events.

AREAS OF SPECIALTY

- Accident Reconstruction
- EDR (Black Box) Imaging & Analysis
- Vehicle Component Failure
- Vehicle Dynamics
- Sightline Obstruction Analysis
- Pedestrian Accident Analysis
- Scene Diagraming
- 3D Laser Scanning

EDUCATION

- Bachelor of Science, Mechanical Engineering, Temple University College of Engineering, 2011
- Certified EIT (PA # ET022448)

PROFESSIONAL EXPERIENCE

November 2017 – Present | ARCCA, Incorporated | Accident Reconstructionist & Forensic Engineer

- Investigates and reconstructs motor vehicle collisions
- Images Event Data Recorders in passenger vehicles
- Conducts mechanical inspections of vehicle components
- Documents and analyzes evidence utilizing 3D laser scanning hardware and software
- Assesses vehicle dynamics in response to applied crash forces
- Utilizes reconstruction software such as EDCRASH, EDSMAC, and SCENE
- Studies vehicle braking performance over non-uniform road surfaces

**October 2013 – November 2017 | Holtec International | Project Engineer**

- Developed factory acceptance test plans for nuclear containment systems, heavy lifting equipment, and hydraulic equipment
- Designed and implemented manufacturing enhancements for aluminum extrusion, friction stir welding, and laser peening programs
- Evaluated causation, and provided rectification oversight, for pressure vessel manufacturing non-conformances
- Ensured pressure vessel and heavy equipment design compliance with ASME Boiler & Pressure Vessel Code and Nuclear Regulatory Commission (NRC) regulations
- Performed structural analyses, explosive overpressure evaluations, and heat transfer evaluations for safety-related equipment at nuclear power plants

December 2011 – August 2013 | TriTech Applied Sciences, Inc. | Mechanical Engineer E4

- Designed, developed and constructed acoustical, vibrational and electromagnetic isolation systems

PROFESSIONAL COURSES TAKEN

- Vehicle Dynamics for Passenger Cars and Light Trucks, Society of Automotive Engineers
- EDC Reconstruction, Engineering Dynamics Corporation
- EDC Simulations, Engineering Dynamics Corporation
- Bosch Full CDR Technician, University of North Florida Institute of Police Technology and Management

PROFESSIONAL AFFILIATIONS

- Society of Automotive Engineers (SAE)
- National Association of Professional Accident Reconstruction Specialists (NAPARS)