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Curriculum Vitae

Chris Bloomberg, P.E.

Profession: Mr. Bloomberg is a consulting engineer specializing in the reconstruction of vehicular accidents. He has analyzed in excess of a thousand accidents involving cars, tractor-trailers, pedestrians, bicyclists, motorcycles, heavy trucks, etc. He has considerable experience with leading edge technology in the field, including tractor-trailer and automobile "black box" data retrieval systems, robust 3-dimensional accident reconstruction and simulation programs, photogrammetry software, surveying equipment, and vehicle accelerometers. Mr. Bloomberg also applies his expertise by inspecting and documenting the condition of mechanical systems, such as the brakes, on tractor-trailers and heavy trucks.

Licensure: Professional Engineer, State of Florida, License Number 55695
Professional Engineer, State of Alabama, License Number 23356

Education: *The University of Alabama at Birmingham, Birmingham, AL*
1986 to 1990 - Bachelor of Science in Materials Engineering, *Cum Laude*
1991 to 1992 - Graduate Studies in Materials Engineering

Experience: *Bloomberg Consulting, Inc. - Pensacola, FL*
2000 to present - President and Consulting Engineer

Benedict Engineering Company, Inc. - Tallahassee, FL
1998 to 1999 - Vice President of Engineering and Accident Reconstructionist
1996 to 1999 - Accident Reconstructionist and Manager of the Pensacola Office
1993 to 1996 - Accident Reconstructionist

The University of Alabama at Birmingham - Birmingham, AL
1991 to 1992 - Undergraduate Class Instructor and Materials Testing Consultant

Process Equipment Company - Birmingham, AL
1990 to 1991 - Design and Safety Analysis

The University of Alabama at Birmingham - Birmingham, AL
1989 to 1990 - Research for NASA Space Shuttle Projects
1989 to 1990 - Materials Testing Consultant

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**Professional
Associations:**

- ◆ National Society of Professional Engineers
- ◆ National Association of Professional Accident Reconstruction Specialists
- ◆ Society of Automotive Engineers
- ◆ American Society for Testing and Materials
- ◆ Florida Engineering Society
- ◆ ASM International
- ◆ Phi Kappa Phi
- ◆ Tau Beta Pi
- ◆ Alpha Sigma Mu

Training:

- ◆ Ongoing Accident Reconstruction Training – Since 1993, Mr. Bloomberg has analyzed hundreds of SAE technical papers, crash tests, and other leading edge research in the field of engineering and accident reconstruction.
- ◆ Traffic Accident Reconstruction, *Northwestern University*, Evanston, IL
- ◆ Commercial Vehicle Accident Reconstruction, *Texas A & M*, Denton, TX
- ◆ Extracting and Analyzing Data from Electronic Control Modules, *Detroit Diesel Training Center*, Detroit, MI
- ◆ Electronic Technician for On Highway Trucks, *Caterpillar Training Center*, Birmingham, AL
- ◆ Highway Event Data Recorder Symposium (Vehicle “Black Box” Systems), *National Transportation Safety Board*, Ashburn, VA
- ◆ Crash Data Retrieval Certification (Vehicle “Black Box” Systems), *Collision Safety Institute*, Houston, TX
- ◆ Crash Data Retrieval Conference, *ARC Network*, Dallas, TX
- ◆ Crash Data Retrieval Conference, *ARC Network*, Houston, TX
- ◆ Crash Data Analyst Certification, *Collision Safety Institute*, Atlanta, GA
- ◆ HTTG Commercial Vehicle Brake Testing, *Transportation Research Center*, East Liberty, OH
- ◆ Commercial Vehicle Braking Systems, *Society of Automotive Engineers*, Detroit, MI
- ◆ Vehicle Drivetrains, *Society of Automotive Engineers*, Detroit, MI
- ◆ HVE-3D Computer Simulations – HVE Forum, *Engineering Dynamics*, Las Vegas, NV
- ◆ HVE-3D Computer Simulations – HVE Forum, *Engineering Dynamics*, San Francisco, CA
- ◆ HVE-3D Computer Simulations – HVE Forum, *Engineering Dynamics*, Miami,
- ◆ FLHVE-3D Computer Simulations – HVE Forum, *Engineering Dynamics*, Phoenix, AZ
- ◆ HVE-2D Computer Simulations, *Northwestern University*, Tallahassee, FL

- ◆ Injuries, Anatomy, Biomechanics, and Federal Regulations, *Society of Automotive Engineers*, Detroit, MI
- ◆ Biomaterials, *University of Alabama at Birmingham*
- ◆ Emergency Collision Avoidance, *Labatt's Test Track*, Toronto, Canada
- ◆ Human Factors, *Catair Conference*, Toronto, Canada
- ◆ Human Factors for Traffic Accident Reconstruction, *University of Massachusetts, Amherst*, MA
- ◆ Commercial Vehicle Inspection, *Florida Trucking Association*, Jasper, FL
- ◆ Defensive Driving Strategy, *National Safety Council*, Tallahassee, FL
- ◆ Fracture Mechanics, *University of Alabama at Birmingham*
- ◆ Non-Destructive Testing, *University of Alabama at Birmingham*

Synopsis:

Mr. Bloomberg has extensive knowledge and experience in the areas of engineering and accident reconstruction. He has been involved in the documentation, analysis, and reconstruction of over a thousand vehicle accidents. Included in those have been cases involving automobiles, pedestrians, bicyclists, tractor-trailers, heavy trucks, motorcycles, etc. His experience has included vehicle rollover analysis, nighttime and daytime visibility studies, seat belt use and effectiveness, traffic signal sequencing, headlamp filament analysis, and time/speed/distance analysis. He has considerable experience with leading edge technology in the field, including tractor-trailer and automobile "black box" data retrieval systems, robust 3-dimensional accident reconstruction and simulation programs, photogrammetry software, surveying equipment, and vehicle accelerometers. His experience also includes the inspection and documentation of the condition of mechanical systems on tractor-trailers and heavy trucks, such as the brakes, in order to determine if the maintenance of these systems contributed to the cause of the accident in question.

Mr. Bloomberg has been qualified as an expert in Florida, Alabama, Mississippi, and Georgia. He has been qualified in both state and federal courts. In the area of accident reconstruction, he has given testimony regarding speeds of vehicles, "black box" data, tractor-trailer brakes, avoidance possibilities, vehicle crush and delta-v, time and distance relationships, headlamp usage, reaction times, etc. In the area of vehicle restraints, he has given testimony regarding seat belt usage and effectiveness, restraint components, occupant compartment intrusion, vehicle interior damage, occupant kinematics, etc.

6/2009