

ALISON BUSENGA,
ACCIDENT RECONSTRUCTIONIST,
6407 ALONDRA BOULEVARD, PARAMOUNT, CA 90723-3759

CURRICULUM VITAE

POSITION: Research and Consulting Engineer specializing in automotive collision analysis and reconstruction.

Research activities include conducting automotive collision experiments, instrumented vehicle performance tests and basic research in various areas of automotive collision safety.

Consulting activities include the analysis and reconstruction of vehicle rollover, single-vehicle, multiple-vehicle, auto-pedestrian, heavy truck, bicycle, and motorcycle collisions. These reconstruction activities include analysis of vehicle dynamics, time-distance analysis, forced occupant motions during and after a collision, and visibility analysis of the environmental collision factors. Visibility analysis includes low light and line of sight evaluations. Methods utilized include computer simulations, mathematical analysis, vehicle component testing, full-scale crash testing, still photography and calibration.

EXPERIENCE:

2001 to Present: Consulting Engineer

1987 to 2001: Research Engineer: Collision Research and Analysis, Inc.

1982 to 1987: Research Engineer: Severy, Inc.

Analyzed and reconstructed over one thousand vehicular accidents. Have participated in vehicle component testing including automotive seat systems, door and latch systems, and roofs. Have provided court and deposition testimony on the subjects of general accident reconstruction, occupant kinematics, visibility analysis and computer-aided analysis and simulations. Analytical and demonstrative reconstruction activities include preparation of graphic exhibits, scale model and computer animations of reconstructed collisions.

Co-author of Society of Automotive Engineers publication: "An Investigation into Vehicle Frontal Impact Stiffness, BEV and Repeated Testing for Reconstruction" (SAE 930899 also published in a book entitled "Accident Reconstruction: Technology and Animation III" SP-946).

Lectured at a "Crash Testing Seminar" on the subject of Repeated Barrier Testing before an audience of accident reconstructionists and engineers. Participated in the design and implementation of the "Crash Testing Seminar" in August, 1992 in San Bernardino, CA. The seminar consisted of five full-scale crash tests and related lecture topics.

EDUCATION:

Bachelor of Science in Mechanical Engineering from California State University of Long Beach, 1982.

Attended seminars and TOPTEC's in the fields of biomechanics of impact trauma, crash reconstruction, vehicle rollovers, and airbag sensor design.

SOCIETIES:

Member of the Society of Automotive Engineers (SAE)

Member of the Association for the Advancement of Automotive Medicine (AAAM)

Member of Pi Tau Sigma, National Mechanical Engineering Honor Society

Member of the American Society of Mechanical Engineers (ASME International)