

Boster, Kobayashi & Associates

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BRAD M. WONG, P.E.

Curriculum Vitae

EDUCATION:

B.S. Mechanical Engineering, University of Southern California, 1991

PRESENT POSITION:

Boster, Kobayashi & Associates, Livermore, CA: May 1991 to present

A consulting firm specializing in the technical aspects of accident reconstruction, highway design and injury causation. Typical assignments involve applications of the laws of physics and the principles of engineering to vehicular accident reconstruction, premises liability (slip/trip and falls, and its association to code and standard compliance), product design/defect analysis, and forensic photography.

Have analyzed over 1700 cases and provided testimony regarding:

- Accident reconstruction
- Premises liability (slip/trip and falls, code/standards compliance)
- Biomechanics (how forces act on a body and its reaction to its environment)
- Human Factors (perception/reaction, visibility)
- Product design/defect
- Forensic photography (night time visibility)

REGISTRATION:

Registered Professional Mechanical Engineer
State of California
Certificate Number M 29136

Certified Playground Safety Inspector
National Playground Safety Institute
Certification Number 9738-0905

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Society of Mechanical Engineers
American Society for Testing and Materials
International Code Council
Society of Automotive Engineers

SPECIALIZED TRAINING AND EXPERIENCE:

Human Factors Engineering – 2004

University of Michigan

Continuing education course concerning the design of systems, products, and services to make them easier, safer, and more effective for human use.

PC-CRASH Advanced Workshop - 2003

PC-CRASH/PC-RECT Training Seminar – 2002

Trained in the use of 2D/3D accident reconstruction simulation software (PC-CRASH) and photogrammetry software (PC-RECT).

Crash Data Retrieval System Training Seminar– 2001

Vetronix Corporation

Trained and certified on the use of Crash Data Retrieval (CDR) system equipment for recovery of crash data from GM vehicles.

HVE Forum - 2000

Engineering Dynamics Corporation

HVE-2D (**H**uman-**V**ehicle-**E**nvironment) is a computer simulation environment for studying interactions between vehicles and their environments. HVE-2D allows the user to create models of vehicles and environments and study their interaction using HVE-2D compatible reconstruction and simulation models. Workshops attended:

EDCRASH for HVE-2D – (Engineering Dynamics Corporation Reconstruction of Accident Speeds on the Highway)

EDSVS & EDVTS for HVE-2D – (Engineering Dynamics Corporation Single Vehicle Simulator and Vehicle Trailer Simulator)

Advanced HVE-2D Parts I to IV – advanced case study including use of EDCRASH, EDSMAC, EDSVS, environments, friction zones

Photogrammetry in Accident Reconstruction - 1998

San Francisco, CA

Society of Automotive Engineers Profession Development Program. A two-day seminar discussing the theory and application of photogrammetry in accident reconstruction.

Passive Restraints Technical Workshop - 1995

San Francisco, CA

Society of Automotive Engineers Continuing Development Group. A two-day workshop addressing the safety issues associated with air bags and automatic seat belt systems.

SPECIALIZED TRAINING AND EXPERIENCE: (continued)

Biomechanics of Injury Causation - 1994

University of Northern California, Petaluma, CA

Discussion of anatomical aspects of injury and biomechanics of injury causation including injuries of the head, neck, spine, brain and face; Discussion of rollover accidents, seat belt and air bag usage, low velocity impacts.

Photogrammetry – Reverse Projection - 1993

Sacramento, CA

Society of Forensic Engineers and Scientists. Discussion and application of reverse projection photogrammetry in accident reconstruction.

California Surveying/Systems Dividends Incorporated - 1993

Sacramento, CA

Trained in the operation of Sokkia Electronic Total Station, including data collection and data processing. Equipment is used to collect site data to provide accurate information regarding road curvatures, site distance, slopes and elevations. Equipment also used for measuring crush profile of vehicles.

Occupational Safety & Health - 1991

Las Positas College, Livermore, CA

Trained in the prevention of workplace related accidents and the responsibility of employers to provide safe working conditions.

PRESENTATIONS AND PUBLICATIONS:

"Forensic Investigations of Premises Liability Accidents", Hawaii Claim Association Annual Seminar
Hawaii, 17 September 2004

"Forensic Investigations of Automobile Accidents", Claims Conference of Northern California, Sacramento,
14 September 2004

Braun, T.A. et al. "Rear-End Impact Testing with Human Test Subjects", SAE 2001-01-0168
(Also presented at SAE 2001 World Congress, March 6, 2001)

"Is There a Merchandise Safety Problem at the Big Discount Stores?" American Academy of Forensic Sciences, 52nd Annual Meeting, Reno, 25 February 2000.

"Would Jayne Mansfield Have Survived? Avoiding Fatal Trailer Under-ride Accidents With Retroreflective Materials", American Academy of Forensic Sciences, 52nd Annual Meeting, Reno, 25 February 2000.

"Experiencing Low Speed Rear-End Impact Tests", American Academy of Forensic Sciences, 52nd Annual Meeting, Reno, 24 February 2000.

PRESENTATIONS AND PUBLICATIONS: (continued)

“The Use of Brungraber II Slip Machine for Wet and Dry Surfaces”, Program of the Society of Forensic Engineers and Scientists, 4 October 1996.

“Developments in Automotive Safety”, University of Southern California, 23 April 1993.