Boster, Kobayashi & Associates

59 Rickenbacker Circle
P.O. Box 2049
Livermore, CA 94551-2049

Office: (925) 447-6495
Fax: (925) 447-6589

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 3000 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 in operation of English XL VIT (CXLT)

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:

FARO Laser Scanning – Focus3D and SCENE Software Training – 2014

Techniques of Risk Management – 2011
Risk and Insurance Management Society – Los Angeles, CA

Workshop discussing the risk management process as well as how to assess, control, finance risks, make decisions under uncertainty and manage the risk management function

The Role of Warnings and Instructions – 2006
Dept. of Engineering, University of Wisconsin – Madison

Hazard analysis, design and development of warnings and instructions, standards, assessing the effectiveness of warnings

Vehicle Dynamics & Handling Seminar – 2005
ESPN Russell Racing Schools – Infineon Raceway, Sonoma, CA

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

Playground Safety Inspector Certification Course - 2002
National Playground Safety Institute

Trained and certified in playground safety

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 – (**E**ngineering **D**ynamics **C**orporation **R**econstruction of **A**ccident **S**peeds on the **H**ighway)

EDSVS & EDVTS for HVE-2D – (**E**ngineering **D**ynamics **C**orporation **S**ingle **V**ehicle **S**imulator and **V**ehicle **T**railer **S**imulator)

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.

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:

"Slipmeters: Current Standards and Validations", MCLE Seminar, Walnut Creek, CA, 17 October 2012

"Motorcycle Accident Investigation and Reconstruction", Hawaii Claim Association Annual Seminar, Hawaii, 21 September 2012

"Photogrammetry and Biomechanics", Hawaii Claim Association Annual Seminar, Hawaii, 23 September 2011 (with Janet H. Jhoun)

"Everything is Not What it Seems", Hawaii Claim Association Annual Seminar, Hawaii, 18 September 2009, Hawaii, 19 September 2009 (with Thomas A. Boster and Janet H. Jhoun)

"Different Types of Trauma and Their Effects on the Human Body", Hawaii Claim Association Annual Seminar, Hawaii, 18 September 2008 (with Thomas A. Boster and Janet H. Jhoun)

"Premises Liability and Child Injuries", Hawaii Claim Association Annual Seminar, Hawaii, 21 September 2007 (with Thomas A. Boster and Janet H. Jhoun)

"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.

"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.