

Boster, Kobayashi & Associates

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FRANK A. PEREZ, Ph.D.

Curriculum Vitae

EDUCATION:

Ph.D. Mechanical Engineering and Computer Science, California Institute of Technology, 1995

M.S. Mechanical Engineering, California Institute of Technology, 1980

B.S. Engineering, Columbia University, 1979

PRESENT POSITION: 1997 to present

Associate of Boster, Kobayashi & Associates, a consulting firm specializing in the technical aspects of accident reconstruction. Typical assignments involve applications of the laws of physics, the principles of engineering, human factors and human psychophysics in accident reconstruction, safety analysis, and evaluation of code and standard compliance.

INDUSTRIAL AND ACADEMIC POSITIONS:

Professional Engineering Positions:

Senior Engineer, von Haenel and Associates, Los Angeles, CA. 1995-1997

Performed tests and simulations, investigated and reconstructed accidents for legal and insurance clients. Provided deposition and trial testimony.

Project Manager, Butch & Company, Los Angeles, CA 1992-1995

Managed start-up effort to develop electronic energy saving street light ballasts for a Brazilian customer. Supervised manufacture of working prototypes.

Member of the Technical Staff, Hughes Aircraft Company, El Segundo, CA 1982-1992

Provided technical support for both Radar and Satellite groups. Involved in both hardware and software design, manufacture, test and failure analysis.

Teaching and Research Positions:

California Institute of Technology, 1994-1995, Visiting Associate in Electrical Engineering

California Institute of Technology, 1987-1994, Research Assistant.

INDUSTRIAL AND ACADEMIC POSITIONS: (continued)

California Institute of Technology, 1990, Teaching Assistant, Computational Neural Vision.

California Institute of Technology, 1982, Teaching Assistant, Heat Transfer.

University of Guam, 1981, Part-time Mathematics Lecturer.

George Washington High School, 1981, Part-time Mathematics and Computer Science Teacher.

Guam Community College, 1980-1981, Part-time Mathematics and Engineering Instructor.

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Society of Mechanical Engineers

Institute of Electrical and Electronics Engineers

SPECIALIZED TRAINING AND EXPERIENCE:

Fires Investigation and Product Liability Litigation - 2007

University of Wisconsin, 2 days, Madison, WI

Role of Warnings and Instructions – 2005

University of Wisconsin, 3 days, Madison, WI

Certified English Machine Tribometrist – 2002

International Safety Academy, 1 day, Los Angeles, CA

Human Factors Engineering – 2002

University of Michigan, 6 days, Ann Arbor, MI

National Ergonomics Conference – 2001

NECE, 3 days, Las Vegas, NV

Seminar: Creating the Reasonably Safe Product – 1998

ASME, 2 days, Houston, TX

Photometry, Colorimetry, and Electronic Imagery - 1991

UCLA Extension, 1 week, Los Angeles, CA

SELECTED PUBLICATIONS:

“Kerosene Lamps and Cook Stoves – The Hazards of Gasoline Contamination”

Fire Safety Journal, 43, 171-179, 2008

SELECTED PUBLICATIONS: (continued)

“Rear-End Impact Testing with Human Test Subjects,”
SAE 2001-01-0168, SAE World Congress, Detroit, March 2001

“Toward Color Image Segmentation in Analog VLSI: Algorithm and Hardware,”
International Journal of Computer Vision, 12:1, 17-42, 1994

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