

# Boster, Kobayashi & Associates

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## GARY M. HESLER

### Curriculum Vitae

#### **EDUCATION:**

B.S. Civil Engineering, Pennsylvania State University, 1976

#### **PRESENT POSITION:**

Boster, Kobayashi & Associates, Livermore, CA 1988 – Present\*

A consulting firm specializing in the technical aspects of accident reconstruction, failure analysis, highway design, and injury causation. Typical assignments and areas of investigation and expert witness testimony include:

- Vehicular and pedestrian accident reconstruction
- Railroad accident reconstruction involving vehicles, pedestrians and workmen
- Highway safety
- Human factors
- Bicycle safety and component design
- Construction and workplace safety
- Premise liability including walkway and stairway safety
- Lighting and visibility

\* Continued ongoing assignments from April 1997 to May 1998 while employed by SSM / Spotts, Stevens and McCoy, Inc., Reading, Pennsylvania.

#### **REGISTRATION:**

Professional Engineer - Pennsylvania - Civil – PEO29114E  
Certified Bridge Safety Inspector – Pennsylvania - 1982

#### **PROFESSIONAL SOCIETY MEMBERSHIPS:**

American Society of Civil Engineers  
American Society for Testing and Materials (ASTM International)  
Institute of Transportation Engineers  
Association of Pedestrian and Bicycle Professionals  
National Association of Professional Accident Reconstruction Specialists  
Evidence Photographers International Council

**PREVIOUS POSITIONS:**

SSM / Spotts, Stevens and McCoy, Inc., Reading PA: 1997-1998

Director of Forensic Services. Established a multi-discipline forensic services department. Developed protocol for forensic examinations, evidence custody, photography and computer animations. Reconstructed vehicular, walkway and construction accidents. Appointed by Cumru Township Board of Commissioners as Township Engineer.

Consulting Engineers, Inc., Malvern, PA: 1987-1988

Performed forensic examinations in areas of construction and walkway safety, highway design, traffic safety, traffic accident reconstruction, building code compliance, and stormwater related incidents.

Bursich Associates, Inc., Pottstown, PA: 1984-1987

Director of Engineering. Designed, bid and managed construction of land development projects, pedestrian walkways, new highway construction, existing highway rehabilitation, storm water culverts, sewage collection and pump stations, and water main installation. Inspected structures for compliance with building codes, plumbing codes and other regulatory requirements. Performed traffic studies and investigated traffic accidents; served as Township Engineer/Planning Consultant to seven municipalities.

Self Employed, Reading, PA: 1980-1984

Consulting Municipal Engineer. Served as Township Engineer/Planning Consultant for six municipalities. Designed and inspected bridges, recreation areas, land development projects, large diameter storm sewer rehabilitation and performed building inspections.

Berger & Hayes, Inc., Thorndale, PA: 1978-1980

Staff Engineer responsible for public improvements and land development projects. Designed new streets, culverts, sidewalks, and stormwater control basins for residential subdivisions.

Robert B. Ludgate & Assoc., Inc., Reading, PA: 1977-1978

Staff Engineer responsible for design of residential subdivisions, including lot layout, stormwater controls and street design.

Gannett Fleming Corddry & Carpenter, Inc., Camp Hill, PA: 1975-1977

Staff Engineer. Calculated storm flows and performed computer modeling of streams to determine flood elevations. Prepared floodplain maps and presented study results to community officials.

**PREVIOUS POSITIONS:** (continued)

United States Army: 1968-1971

Military Intelligence Specialist. Interpreted film from reconnaissance aircraft and satellite systems including conventional photography, infrared and radar imagery for target detection, topographic studies and highway analysis. Held top secret security clearances; served in Republic of Vietnam in 1969 and 1970.

Automobile Mechanic: 1966-1974

Full and part-time employment at gasoline service stations in Bryn Mawr and Malvern, PA. Responsible for state inspection and mechanical repairs to automobiles and light trucks, including brake systems, suspension, exhaust, lighting, and engine repair.

**SPECIALIZED TRAINING AND EXPERIENCE:**

Fundamentals of Roadway Lighting – 2007

Roadway and walkway lighting design and evaluation of existing facilities  
University of California Berkeley Institute of Transportation Studies

Alternative Treatment for At-Grade Pedestrian Crossings – 2006

Guidelines and design criteria for signalized and uncontrolled crossing locations  
Institute of Transportation Engineers (ITE)

Western Regional Grade Crossing Safety Training Conferences – 2005, 2006

Railroad crossing design, preemption, human factors, Rails with Trails, MUTCD workzones  
University of California Berkeley/ Federal Railroad Administration

Human Factors Engineering – 2004

Design of systems, products, and services to make them easier and safer for human use. Included human vision capabilities and limitations, human error and anthropometry  
University of Michigan College of Engineering, 6 days, Ann Arbor, MI

Night Photography Course – 2003

University of California – Berkeley Extension

Highway-Railroad Grade Crossing Workshop – 2002

Grade crossing operation/design, signal timing, signal preemption, public education, and alternative crossing protection  
Northwestern University Center for Public Safety, 3 days, Evanston, Illinois

PC-Crash/ PC-Rect Workshop – 2002

Accident reconstruction computer simulation with accident scene photography rectification  
MacInnis Engineering Associated, Ltd.

Motorcycle Rider Course – 2000

Motorcycle Safety Foundation

**SPECIALIZED TRAINING AND EXPERIENCE:** (continued)

Nikon School of Photography – 1994, 2000  
Nikon, Inc.

Fall School of Evidence Photography - 1996  
Evidence Photographers International Council

Kodak Digital Imaging Seminar - 1993  
Kodak/Dean Collins Productions

EDSMAC - Vehicular Accident Computer Simulation - 1993  
Engineering Dynamics Corporation, 5 days

Photography Workshops - 1991, 1992  
Clinton Smith - Instructor

Flash Photography Workshop - 1991  
University of California - Berkeley Extension

Night Photography Workshop - 1991  
University of California - Berkeley Extension

The Scientific Basis of Photography - 1991  
University of California - Berkeley Extension

Forensic Engineering Seminar in Accident Reconstruction - 1988  
National Academy of Forensic Engineers

Work Zone Traffic Control - 1988  
Pennsylvania State University

Highway Joint Sealing and Seal Coat Applications - 1987  
Pennsylvania State University

Practical Ergonomics for Accident Prevention - 1987  
American Society of Safety Engineers/Leonard Ring

Traffic Accident Reconstruction Course - 1987  
The Traffic Institute, Northwestern University, Evanston, IL

Pennsylvania Wetlands – Values and Regulations – 1987  
Piedmont Aquatic Scientists Association

Geomembranes for Design & Construction - 1985  
Engineers Club of Philadelphia

Geotextiles for Design & Construction - 1984  
Engineers Club of Philadelphia

**SPECIALIZED TRAINING AND EXPERIENCE:** (continued)

Load Factor Design for Highway Bridges - 1983  
Pennsylvania Department of Transportation

Bridge Safety Inspector Training Course - 1982  
Pennsylvania Department of Transportation

Community Planning - 1977, 1982  
Pennsylvania Department of Community Affairs

Road and Street Maintenance - 1980  
Pennsylvania Department of Community Affairs

Philosophy and Design of Erosion/Sediment and Water- Management Control - 1977  
Chester County (PA) Conservation District

**PAPERS AND PRESENTATIONS:**

"Skylab Photography – Film Analysis and Terrain Mapping" - Hesler, G.M., B.S.,  
H.A. Weeden, Ph.D., S.G. Daelhausen, Ph.D., C.L. Kleeman, M.S.

Reported in "Interdisciplinary Applications and Interpretations of EREP Data within the Susquehanna River Basin" by the Pennsylvania State University Office of Remote Sensing of Earth Resources, 1975

"Rear-End Impact Testing with Human Test Subjects" – Hesler, G.M., et al

SAE 2001-01-0168, presented at the Society of Automotive Engineers SAE 2001 World Congress, March 6, 2001

"Nighttime Photography and Videography in Accident Reconstruction"

Pennsylvania Office of Attorney General Annual Torts Litigation Conference,  
State College, Pennsylvania, July 1997.

"Bringing the Jury to the Accident Scene – Techniques and Applications of Night Photography and Computer Animations"

National Association of Railroad Trial Counsel Special Litigation Conference,  
Vail Colorado, January 1998.  
National Association of Railroad Trial Counsel Winter Meeting, Fort Lauderdale, Florida,  
February 1998.