



## *Curriculum Vitae*

# **Farhad Boeshaghi, Ph.D., P.E.**

Principal Consulting Engineer

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Professional Engineer with over 20 years of experience in forensic engineering consulting and expert witness services in a plethora of practice areas, including but not limited to:

- ❖ Vehicular accident reconstruction, occupant kinematics, human factors engineering and biomechanics of injury causation involving pedestrians, bicycles, motorcycles, recreational vehicles, boats, tractor-trailers, dump trucks, construction equipment, ...
- ❖ Product liability evaluation, product design, manufacturing and safety-related issues, failure analysis, testing, applicable standards for a wide variety of products and applications, ...
- ❖ Premises liability evaluation, slip and fall, trip and fall, steps, stairs, scaffolding, and ladder falls, biomechanics of injury of causation, codes and code compliance, safety practices, ...
- ❖ Fire and explosions, vehicular, products, batteries, gas appliances, buildings, ...
- ❖ Industrial accidents, cranes, conveyors, forklifts, man lifts, explosions, chemical spills, falls, OSHA, MSHA, rotating machinery, pinch points, guarding, ...
- ❖ Construction accident and disputes, electrical, mechanical, structural, compliance, products, machinery, ...
- ❖ Electric shocks and electrocutions, fires, causation, product malfunction, injury causation, ...

## **Education**

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2005	Certification in Biomedical Engineering   University of Gainesville, FL
1997	Doctor of Philosophy in Mechanical Engineering   Florida State Univ., Tallahassee, FL Concentration: Mechanics and Materials
1987	Master of Science in Mechanical Engineering   University of Alabama, Tuscaloosa, AL Concentration: Dynamics and Controls
1984	Bachelor of Science in Mechanical Engineering   University of Alabama, Tuscaloosa, AL

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## Professional Experience

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- 2007 – 2020 Global Engineering Scientific Solutions, LLC (GESS) | Tallahassee and Palm Beach, Florida  
Consulting Engineer
- 2007 BEC Consulting, LLC | Tallahassee, FL  
Senior Consulting Engineer
- 1998 – 2006 Benedict Engineering Company | Tallahassee, FL  
Consulting Engineer
- 1992 – 1997 Benedict Engineering Company | Tallahassee, FL  
Consulting Engineer – Part Time
- 1999 – 2008 FAMU-FSU College of Engineering | Tallahassee, FL  
Adjunct Professor - Courses Taught: Design Methods in Product Design and Manufacturing, Safety Engineering, Ergonomics and Human Factors Engineering, Nanotechnology
- 1992 – 1998 FAMU-FSU College of Engineering | Tallahassee, FL  
1997 – 1998 Post-Doctoral Research Associate // National High Magnetic Field Laboratory  
1994 – 1997 Research Assistant  
1992 – 1994 Graduate Teaching Assistant
- 1995 – 1997 Tallahassee Community College | Tallahassee, FL  
Math and Science Instructor
- 1986 – 1991 University of Alabama | Tuscaloosa, AL  
1987 – 1991 Engineering and Mathematics Instructor  
1986 – 1987 Graduate Teaching Assistant
- 1984 – 1986 University of Alabama Mechanical Engineering Design Clinic | Tuscaloosa, AL  
Design/Maintenance Engineer // Rochester Products/Division of General Motors

## Licenses, Registration, & Certifications

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- ❖ State of Florida Professional Engineer // No. 53905
- ❖ State of Alabama Professional Engineer // No. 24561
- ❖ State of California Professional Engineer // No. 31784
- ❖ State of Carolina Professional Engineer // No. 24486
- ❖ Accreditation: Commission for Traffic Accident Reconstruction // ACTAR No. 1016
- ❖ Certified Fire and Explosion Investigator (CFEI) // No. 8819-3783
- ❖ Certified Vehicle Fire Investigator // No. 8819-3783V
- ❖ Certified Forklift Operator // OSHA 29 CFR 1910.178
- ❖ Certified Radon Measurement Specialist // No. R2090
- ❖ Certified Radon Mitigation Specialist // No. R2096
- ❖ State of Florida Certified General Contractor in Construction // No. CGC1517851

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- Apr. 2004 "Analysis of Collisions Involving Pedestrians or Bicyclists" // Collision Safety Institute, FL
- Sept. 2003 "Crash Data Retrieval System Operator" // Collision Safety Institute, FL
- Feb. 2003 "Comprehensive Course in Auger Boring Technology" // Michigan State University, MI
- 2002 Engineering Textbook Reviewer, Methods, Standards and Work Design // McGraw-Hill Companies, IL
- Oct. 2002 Full Day Clinical Shadowing, Dr. Andrew Wong, Orthopedic Surgeon // Tallahassee Orthopedic Clinic, FL
- Oct. 2002 Clinical Preceptorship, Total Knee Revision Surgery // Tallahassee Memorial Hospital, FL
- Jul. 2002 "General Industry Safety and Health" // OSHA Course No. 700003537
- 2001-Present Technical Paper Reviewer // Society of Automotive Engineers (SAE)
- Apr. 2001 Regional Administration Conference // Automotive Society for Mechanical Engineers (ASME)  
ASME 2001 "Heating Boilers – Construction, Care and Operation"  
ASME, Sections IV and VI, Tallahassee, FL
- Sept. 2000 "Ergonomic Design Guidelines for Engineers" // Society of Manufacturing Engineers
- Aug. 2000 Professional Leadership Seminar // ASME
- Mar. 2000 "Commercial Vehicle Inspection and Collision Investigation" // Texas A&M University
- 2000 "Advanced Commercial Vehicle Inspection and Collision Investigation" // Texas A&M University
- Feb. 2000 OSHA Compliance & Workplace Safety Seminar // OSHA
- Mar. 1999 Truck Safety Inspection Program, Safety Management Council // Florida & Georgia Trucking Associations
- Jun. 1999 "HVE-2D Crash Analysis Training" // Northwestern University Traffic Institute, Tallahassee, FL
- May 1998 "Traffic Accident Reconstruction" // Northwestern University Traffic Institute, Tallahassee, FL
- Apr. 1998 "Using Photoshop" // Rockhurst College Continuing Education Center, Tallahassee, FL
- 1996 – 1997 HAZCOM Training // National High Magnetic Field Laboratory, Tallahassee, FL

## Sample Publications

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Booeshaghi, Farhad, "Ergonomics Hazards and Repetitive Strain (EHRS) – Chapter: Best Practices." American Society of Safety Engineers (ASSE) – Safety Professional's Handbook, 2008.

Booeshaghi, Farhad, and H. Garmestani. "On the Application of Load Relaxation in Characterizing Superplastic Al-Li 8090 Over Large Strain-Rate Regimes." Scripta Materialia 40 (1999): 509-516.  
Booeshaghi, Farhad. "Basic Principles of Machine Guarding: an Engineer's Perspective." The Brief October 1998.

Booeshaghi, Farhad, and H. Garmestani. and Kalu, P. "Micromechanical Investigation and Phenomenological Modeling of AL-8090 Superplastic Materials." Materials Science Forum 243-245 (1997): 569-574.

Booeshaghi, Farhad, H. Garmestani, and P. Kalu. "Phenomenological Modeling of Superplasticity." Proceeding of TMS Annual Meeting, Lightweight Alloys for Aerospace Application IV, Orlando, FL, February 1997.

Booeshaghi, Farhad, and H. Garmestani. "On the Existence of Threshold Stress." Scripta Materialia 38 (1) (1997): 89-94

Booeshaghi, Farhad. "Phenomenological Modeling Based on Micromechanical Characterization of Superplastic Materials." Ph.D. diss., Florida State University, 1997.

Garmestani, H., P. Hollis, and Farhad Booeshaghi. Experimental Methods in Solid Mechanics. Laboratory Manual. Tallahassee: College of Engineering Mechanical Engineering Department, Florida State University, 1996

## Presentations

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Recurrently featured presenter on the aforementioned practice areas at various venues, conferences, and workshops.

## Patents

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Booeshaghi, Farhad, Charles E. Benedict, Stephen R. Corbett, Christian A. Yates, et al. 2002. "Pivotal Guards for Power Hand Tools with Rotating Discs." U.S. Patent 6,699,114, filed April 26, 2002 and issued March 2, 2004.

Benedict Engineering Company. 2004. "Safety Guard Stop for Band Saws." U.S. Patent Application 10/389,809, Notice of Allowance Oct. 8, 2004.

## Sample Research Projects

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- 2002 Principal Research Investigator on a proposal submitted to the National Highway Traffic Safety Administration (NHTSA), titled: "Software to Calculate Relationships of Automotive Crash Forces to Specific Occupant Injuries in Real-World Crashes"
- 1992 – 1997 Research Investigator on projects initiated by: National Aeronautics and Space Administration (NASA), Florida Department of Transportation (FLDOT), National High Magnetic Field Laboratory (NHMFL), and Department of Energy (DOE)