



Applied Cognitive Sciences

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**LICENSE:**

Certified Human Factors Professional, 2006-present  
By the Board of Certification in Professional Ergonomics  
License Number: 1392

Certified XL Tribometrist, 2005-present  
By the International Safety Academy  
License Number: 170

Project Management Professional, 1993-present  
By the Project Management Institute  
Certification Number: 1384

Certified Safety Professional, 2013-present  
By the Board of Certified Safety Professionals  
Certification Number: 24124

**EDUCATION:**

Colorado School of Mines, 1994  
M.S. in Environmental Engineering

University of Northern Colorado, 1988  
Masters in Business Administration

Wright State University, 1979  
B.S. in Human Factors Engineering

**PROFESSIONAL EXPERIENCE:**

*Human Factors Engineering Consultant for Applied Cognitive Sciences (1994-present):* I have worked as a research associate, human factors engineering associate, and senior engineer on several hundred legal cases, for both the plaintiff and defense, nationwide; I am currently the owner and President of Applied Cognitive Sciences. The focus of my work has been in safety and risk management; my areas of expertise include, but are not limited to: facility design and fall-at-elevation accidents, industrial accidents, automotive accident reconstruction, workplace injuries, consumer products, and Warnings. I have also worked on human factors engineering consulting projects for private industry, again with an emphasis in safety and risk management; projects have included work for: Anchor Industries, City of Snohomish, and the American Fun Cart Association, Cam-X Crossbows, and the Davis Company.

*Project Manager for EG&G (1992–1994):* I was responsible for Environmental Restoration projects from conception and initial design through test and close-out. This included overall responsibility for safety and risk management issues of the project, as well as maintaining scope, schedule and budget baselines, preparation of all required documentation, and overall leadership, management, and coordination of multi-functional disciplines in order to maximize program effectiveness and efficiency.

*Senior Principal Engineer for EG&G (1990-1992):* I was responsible for the development and implementation of plant wide systems in

accordance with Department of Energy Orders and Best Industry Practice. This included programs for Root Cause Analysis (i.e. so as to determine the underlying causes of accidents and near misses so that corrective action could be implemented), Lessons Learned, Occurrence Reporting, and Document Control.

*Principal Engineer for Rockwell International (1983-1990):* This position required a Department of Energy Q Clearance. I was responsible for the development of new weapons programs and served as the principal contact on technical matters with customers. Responsibilities included task analyses for unique processes in order to identify and mitigate safety and risk management issues.

*Human Factors Engineer for Martin Marietta Aerospace (1979-1983):* This position required a Secret Security Clearance. I was responsible for the Human Factors Engineering on the MX Missile System, including safety and risk management issues. In this position I conducted analyses in all phases of the design, development, and manufacturing cycles of the MX Missile to ensure the Instrumentation and Flight Safety System was operable and maintainable by the 5<sup>th</sup> through 95<sup>th</sup> percentile Air Force technician. In addition, I developed detailed procedures for system operation and maintenance.

#### **HONORS AND AWARDS:**

- Graduated *summa cum laude* at Colorado School of Mines, (GPA 3.9 out of 4.0), 1994
- Graduated *summa cum laude* at University of Northern Colorado, (GPA 4.0 out of 4.0), 1988
- Best Presentation Award at Martin Marietta Aerospace, 1980
- Graduated *summa cum laude* at Wright State University, (GPA 3.9 out of 4.0), 1979
- Outstanding Senior Engineer at Wright State University, 1979
- W.S.U. Foundation Scholarships, 1977 and 1978

#### **PRESENTATIONS:**

- Gill, J. "Short Course in Human Factors & Safety." Invited Presentation by the Washington State Association for Justice, May 2015
- Gill, J. "Forensic Applications of Human Behavior." Invited Presentation by the Washington State Association for Justice, November 2013
- Gill, J., Gill, R., and Colcombe, A. "Safety by Design: Not Always." Invited Presentation by the Idaho Trial Lawyers' Association, September 2013
- Gill, R. and Gill, J. "Safety by Design: Not Always." Invited presentation by the 360 Advocacy Institute, February 2009
- Gill, J. and Gill, R. "Human Factors in Litigation." Invited presentation by the Washington State Trial Lawyer's Association, October 2006

#### **PROFESSIONAL ACTIVITIES:**

- Member of Human Factors and Ergonomics Society
- Member of ASTM International
- Member of Illuminating Engineering Society of North America
- Member of National Safety Council
- Member of System Safety Society

#### **CONTRACTS:**

- Evaluation of Product Label and Safety Instructions for Multi-Plug; Davis Company; co-investigator; 2018
- Evaluation of On-Product and On-Manual Warnings, CamX Crossbows, 2016
- Testing and Evaluation of "Safe Steps Floor Treatment" on University of California Riverside campus, principal investigator, 2010
- Evaluation and Development of a Fire Shelter Warning System for Anchor Industries, principal investigator, 2006
- Safety Analysis of Electronic Billboards, City of Snohomish, co-investigator, 2005
- Evaluation of Warning Label Designs, American Fun Kart Association, co-investigator, 2002