

Resume of  
**Olof H. Jacobson, M.S., P.E.**



**Education:** M.S. Applied Mechanics, Colorado School of Mines, Golden, 1991. Fields of Study: dynamics, stress analysis and mechanics of materials. B.S. Mechanical Engineering. University of Colorado, Boulder, 1977.

**Registration:** Mr. Jacobson is a Registered Professional Engineer in Colorado and Wyoming.

**Experience:** President, Jacobson Forensic Engineering, 1997 to Present; Senior Engineer, Knott Laboratory, Denver, Colorado, 1991 to 1997; Assistant Adjunct Professor, Colorado School of Mines, Golden, Colorado 1991 to 1994; Site Manager, Colorado Power Partners, Brush, Colorado 1989 to 1990; Manager of Maintenance, Facilities and Tooling, Samsonite Corporation, Denver, Colorado, 1980 to 1988; Mechanical Engineer, Public Service Company of Colorado, Denver, Colorado, 1977 to 1980.

**Forensic Engineering:** Mr. Jacobson conducts investigations of vehicular accidents involving automobiles, tractor-trailers, buses, motorcycles, bicycles and pedestrians. He evaluates human body motion and injury mechanisms utilizing his experience in biomechanics. Mr. Jacobson analyzes the performance of brakes and suspension systems and the failure of mechanical components such as engines and transmissions. His background in designing and maintaining manufacturing, building and utility systems enables him to provide analysis of a wide variety of mechanical failures including manufacturing equipment, safety and guarding. Mr. Jacobson also investigates skier collisions and ski lift accidents..

**Engineering and Design** Mr. Jacobson lectures and authors publications on various aspects of vehicle accident reconstruction and biomechanics, including the analysis of seat belt performance, occupant dynamics and injury mechanisms, as well as machine design and mechanical product failure analysis.

At the Colorado School of Mines Mr. Jacobson taught machine design, engineering mechanics and finite element analysis.

As Site Manager for Colorado Power Partners, he was responsible for construction of a cogeneration power plant, including the installation of power generation equipment as well as refurbishment of steam and gas turbines.

While Manager of Maintenance, Facilities and Tooling at Samsonite, he was in charge of designing modifications and maintenance programs for manufacturing equipment such as plastic molding machines and stamping presses, and utility equipment including HVAC components, boilers, pumps, waste-water treatment and fire protection sprinklers. He analyzed machine failures and designed corrective modifications. He developed and implemented facility construction projects for improved utility and compliance with government regulations, including safety and guarding requirements.

As a Mechanical Engineer with Public Service Company, his duties included all phases of engineering from design through installation of power plant equipment including turbines, generators, conveyors, pumps, fans, fire protection and piping.

Mr. Jacobson represents various parties in the analysis and correction of failed building systems, and is experienced in negotiating settlements with contractors, insurance companies and government agencies.

**Expert Testimony:** As a result of his investigations, Mr. Jacobson is asked to provide expert testimony in court and often participates in arbitrations. He has testified for both plaintiffs and defendants.

**Professional Affiliations:** Mr. Jacobson is a member of the Pi Tau Sigma and Tau Beta Pi Engineering Honorary Societies and is past president of the Centennial Chapter of Toastmasters International. Mr. Jacobson is currently a member of the following technical and professional societies:

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| SAE  | - Society of Automotive Engineers            | ASTM        | - American Society for Testing and Materials |
| ASME | - American Society of Mechanical Engineers   | AAFS        | - American Academy of Forensic Sciences      |
| NAFE | - National Academy of Forensic Engineers     | PEC         | - Professional Engineers of Colorado         |
| NSPE | - National Society of Professional Engineers | ARC Network | - Accident Reconstruction Network            |
| ISSS | - International Society for Skiing Safety    |             |  |



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