

CONSULTING ENGINEER

DEREK B. ZAHL, Ph.D., P.E.

Engineering Design & Testing Corp.
52 Mission Circle, #124
PMB 167
Santa Rosa, California 95409
Telephone: (707) 578-9030
derekzahl@edtengineers.com

EDUCATION:

1988 B.S., Mechanical Engineering (with honors) University of California, Santa Barbara
1990 M.S., Mechanical Engineering, University of California, Santa Barbara
1993 Ph.D., Mechanical Engineering, University of California, Santa Barbara
Major fields of study: Solid Mechanics, Dynamics, Material Science

EXPERIENCE:

2000 to present Engineering Design & Testing Corp., Santa Rosa, California

Failure analysis of machinery and components, material science evaluation, scope of damage and cost of repair evaluation, fire cause and origin analysis, cause of water damage, accident reconstruction, and vehicle system evaluation.

1994 to 2000 DBZahl, Ph.D., Santa Rosa, California

Investigation into the sequence of events and cause of vehicle accidents, pedestrian accidents, and product/component failures.

1988 to 1992 JKS Associates, Santa Rosa, California

Accident site surveys, literature searches, velocity change calculations, stress-strain calculations as related to product/component failure, photography, and construction of exemplar models.

1988 to 1992 R. S. Hickman, Santa Barbara, California

Accident site surveys, literature searches, velocity change calculations, stress-strain calculations as related to product/component failure, photography, and construction of exemplar models.

1995 to 2000 Optical Engineering, Inc., Santa Rosa, California

Research and development of high power CO₂ lasers and laser systems. Mechanical, thermal, magnetic, and optical design and analysis of components operating under vacuum and in the presence of ionized gases. Management of manpower and other resources in cooperation with other engineering and production requirements.

1994 Sonoma State University, Cotati, California

Organized and taught algebra and physics courses in the pre-college program.

1992 to 1994 Max-Planck-Institute, Stuttgart, Germany

Numerical analyses on the mechanical behavior of advanced composite materials. Publication and presentation of technical papers.

PROFESSIONAL REGISTRATIONS:

Registered Professional Engineer: California (#M30339) 1997
Registered Professional Engineer: Arizona (#36357) 2001
Registered Professional Engineer: Oregon (#66937PE) 2001
Registered Professional Engineer: Washington (#37740) 2001
National Council of Examiners for Engineering and Surveying (Record #19714) 2001
Registered Professional Engineer: New Mexico (#18560) 2007
United States Council for International Engineering Practice (Record IR159) 2008

PROFESSIONAL ORGANIZATIONS:

- National Society of Professional Engineers
- American Society of Mechanical Engineers
- National Academy of Forensic Engineers
- Society of Automotive Engineers
- American Society for Metals
- National Association of Fire Investigators