



CURRICULUM VITAE

Kerry L. Stanford, P.E. Accident Reconstruction & Mechanical Engineering Consultant

PROFILE

Highly technical professional with impeccable credentials as an Accident Reconstruction and Failure Analysis professional. As a registered Professional Engineer Mr. Sanford demonstrates accuracy in research and assessment compliance of machine design and specifications, hydraulics and other relevant national consensus standards.

PROFESSIONAL CERTIFICATIONS

State of Oklahoma:	Registered Professional Engineer	License No. 13,287	April 1983
State of Alaska:	Registered Professional Mechanical Engineer	License No. 8,792	May 1994
State of Texas:	Registered Professional Engineer	License No. 82,557	July 1997
State of Arkansas	Registered Professional Engineer	License No. 13,778	May 2009

ACADEMIC CREDENTIALS

B. Sc.	Mechanical Engineering, University of Oklahoma	May 1978
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ANCILLIARY TRAINING AND EDUCATION

<u>Baroid Mud Logging School</u>	April 1977
<ul style="list-style-type: none">Three week training course in principals of oil and gas drilling, oil and gas drilling systems, drilling fluid logging techniques, and use and maintenance of specialized electronic, chemical, and mechanical well logging equipment.	
<u>Analysis of Low Speed Collisions</u>	December 1996
<ul style="list-style-type: none">Texas Engineering Extension Service, Texas A&M Univ.Low-speed crash testing of automobiles.	
<u>Low Speed Collision Impact Analysis & Injury Potential Evaluation</u>	February 1999
<ul style="list-style-type: none">Transportation Accident Reconstruction SeminarLow-speed crash testing of automobiles.	
<u>Tire and Wheel Safety Seminar</u> (SAE sponsored seminar)	December 2004
<ul style="list-style-type: none">Tire construction features, tire failure modes, vehicle roll-over analysis, tire braking forces, braking efficiency, high speed tire behavior, case studies.	

AREAS OF ENGINEERING EXPERTISE

- Accident investigation and reconstruction
- Engineering failure analysis
- Forensic engineering
- Equipment design:
 - Construction and mining equipment
 - Industrial systems and equipment
 - Natural gas compressor systems and gas pipelines
 - Oil field and specialized drilling equipment

PROFESSIONAL EXPERIENCE

2006 - Present

Americana Safety Associates, LLC - Dallas, Texas

Accident Reconstruction & Mechanical Engineering Consultant

- Provides expert witness and litigation support to trial attorneys in personal injury, negligence and wrongful-death law cases. Areas of specialization include, but are not limited to, high and low-speed vehicle accidents, accident reconstruction and failure analysis, mechanical safety and engineering design and specification issues.
- Provides engineering consultation services to business and industry on mechanical engineering safety issues, concerns and abatement of hazards.
- Provides regulatory compliance and on-site inspection consultation services to business and industry to ensure compliance with all applicable U.S. federal and state safety requirements, laws and regulations.

2001 - Present

Private Practice, Rowlett, Texas

Accident Reconstruction & Mechanical Engineering Consultant

- Provides forensic engineering services and failure analysis in the areas of automotive accidents, fire and explosion investigation, oil and gas drilling and production equipment, construction and mining equipment, farming equipment, industrial processes, vehicle and boat fire cause and origin, outdoor recreational gear, recreational boats and engines, consumer products, Polar engineering, and aerospace components.
- Technical duties include accident site investigation, evidence collection and preservation, provision of complete accident analysis and reconstruction, component and product failure analysis, incident and analysis documentation and report writing, and expert witness testimony as required in both deposition and trial.

1997 - 2001

Engineering and Fire Investigations, Dallas, Texas

Senior Engineer

- Provided Forensic Engineering and failure analysis in the areas of automotive accidents, fire and explosion investigation, structural engineering, oil and gas drilling and production equipment, construction and mining equipment, farming equipment, industrial processes, outdoor recreational gear, recreational boats and engines, and consumer products.
- Duties included provision of complete accident analysis and reconstruction, component and product failure analysis, incident and analysis documentation, and expert witness testimony as required in both deposition and trial.

1995 - 1996

Ingersoll-Rand Mining and Construction, Inc., Garland, Texas

Senior Engineer

- Provided design engineering, equipment test, manufacturing engineering, and documentation on large crawler-type blast-hole drills for open pit mines.
- Provided design, failure analysis, fabrication and assembly oversight.
- Typical custom drill production required completion of specification set, design and analysis work on specialized equipment as needed to meet customer requirements, interface with other engineering disciplines, and oversight on fabrication and documentation completion.

- 1991 – 1995 **Polar Ice Coring Office, University of Alaska**, Fairbanks, Alaska
Technical Services Manager
- Under contract to the National Science Foundation (NSF), provided ice core and permafrost core recovery and other engineering and science support services.
 - Design of specialized equipment, design supervision, specifications development, laboratory and field equipment test, failure analysis.
 - Managed one-million dollar operating budget.
 - Oversaw field work at science stations and remote camps in Greenland, Antarctica and Alaskan North Slope.
- Provided engineering design for expeditions to the Chinese Himalayas, Peruvian Andes, Wind-River Range, and other remote glacial locations.
- 1989 - 1990 **HEBCO, Inc.**, Midwest City, Oklahoma
Senior Engineer
- Provided services under contract to MM Division of Tinker AFB Air Logistics Center. Duties included engineering design and failure analysis for various aircraft and flight systems such as the C-130, AWACS, B-52 G&H, KC-135, A-7, F-4 and ALCM (Air Launched Cruise Missile) and SRAM (Short Range Attack Missile) launch systems for the B-52 and B-1.
 - Wrote and proofed Military Technical Orders.
 - Handled sub-contracting and project liaison with government engineers and supervisors.
 - Wrote technical proposals and white papers for further potential contracts with the Department Of Defense, state agencies, and various federal agency SBIR programs.
- 1988 - 1989 **CMI, Inc.**, Oklahoma City, Oklahoma
Engineering Manager
- 1984 - 1988 **Private Practice**, Norman, Oklahoma
Consulting Engineer
- 1983 - 1984 **Halifax Engineering**, Tinker Air Force Base, Oklahoma
Lead Engineer
- 1981 - 1983 **Geologist Pioneer**, Oklahoma City, Oklahoma
Design Engineer
- 1980 - 1981 **Drilling Research Lab**, Salt Lake City, Utah
Design Engineer
- 1980 **Hercules Aerospace**, Clearfield, Utah
Design Engineer
- 1979 - 1980 **TotCo**, Oklahoma City, Oklahoma
Project Engineer
- 1975 - 1978 **Aminoil USA, Inc.**, Oklahoma City, Oklahoma
Engineering Technician

PUBLICATIONS AND PRESENTATIONS

"An Overview of the GISP 2 1991 Scientific Ice Core Drilling Operations"; K.L. Stanford and M. Wumkes. IDEEA I Proceedings Report; Houston, Texas; Nov. 1991.

"Causes of the Appearance of Stresses in an Ice Core"; V.S. Zagorodnov, O.V. Nagornov, J.J. Kelley and K.L. Stanford. Journal of Glaciology.

"An Engineering, Environmental and Logistical Analysis of the Polar Ice Coring Office 13.2 cm Ice Coring System"; K.L. Stanford. Second International Symposium on Exploratory Drilling in Complex Conditions Proceedings, St. Petersburg, Russia; June 1992

"Future Technical Developments for the Polar Ice Coring Office's 13.2 cm Ice Coring Drill", K. Stanford. Fourth International Workshop on Ice Drilling Technology Proceedings, Tokyo, Japan; April, 1993.

"Ice Coring and Drilling Technologies Developed by the Polar Ice Coring Office", J.J. Kelley, K.L. Stanford, B. Koci, M. Wumkes, and V. Zagorodnov. Fourth International Workshop on Ice Drilling Technology Proceedings, Tokyo, Japan; April, 1993.

"GISP 2 Deep Ice Core Drilling"; J. Collins, D. Giles, J. Kelley, B. Koci, K. Stanford, V. Zagorodnov. Arctic Research of the United States, 1995.

- International engineering, business, technical paper presentations, and personal experience includes travel and activities in Alaska, New Zealand, Antarctica, Canada, Japan, Greenland, Mexico, and Russia.

PROFESSIONAL MEMBERSHIPS

- Society of Automotive Engineers
- Texas Association of Accident Reconstruction Specialists (TAARS)
- Experimental Aircraft Association Member No. 445,508
- Seaplane Pilots Association
- Order of the Engineer

ADDITIONAL TECHNICAL QUALIFICATIONS

Board draftsman, freehand artist and illustrator, technical writer, and feature writer.

A strong background with Computer Aided Drafting systems (CAD) such as AutoCAD and Anvil 5000 and other administrative and technical software on both DOS and Apple computer systems as well as engineering workstations.

Utilized both TEXIM and Microsoft Project planning and management software in various applications.

AVAILABILITY

Mr. Stanford is available nationwide for select accident reconstruction, failure analysis and mechanical engineering consultations through Americana Safety Associates, LLC.