

Mr. Sangdahl is a senior consultant at ESI, with a degree in Mechanical Engineering and more than 30 years of diverse experience in engineering consulting, mechanical and metallurgical testing, forensic engineering, and project management. He specializes in the areas of vehicular component and systems failure analysis, vehicle dynamics, and accident reconstruction. Mr. Sangdahl has been trained and certified to retrieve and analyze vehicle event data recorders and is nationally accredited in accident reconstruction. He has in-depth knowledge and experience of automotive seat performance issues and light bulb filament analysis. Additionally, he has investigated incidents and failures involving commercial, industrial, construction and farm equipment, aircraft, watercraft, and railroad equipment. He has extensive experience in the field of photogrammetry, image analysis and geographic information systems. Mr. Sangdahl has testified at deposition and trial numerous times in state and federal courts.

Licenses & Certifications

- State of Illinois P.E. License No. 062-048383

Positions Held

Engineering Systems Inc., Aurora, Illinois

- Senior Research Engineer, Manager-Automotive Engineering, Senior Consultant 1987 – Present

Paker Engineering Associates, Naperville, Illinois

- Lab Technician, Lab Manager, Engineer – 1976-1987

Publications

Step Ladders - Understanding Strength, Stability Key to Accident Investigation

C.R. Morin, J.A. Wilkinson, G.S. Sangdahl, Claims, June 1995

Continuing Education

- **Level I Ultrasonic Testing** – Triad, Schaumburg, Illinois, 1984
- **Traffic Accident Reconstruction** – Northwestern Traffic Institute, Evanston, Illinois, 1985
- **Mechanics of Heavy Trucks** – The University of Michigan, Ann Arbor, Michigan, 1995
- **Heavy Vehicle Rollovers** - SAE TOPTEC, Atlanta, Georgia, 1983
- **RolleiMetric MR2 Photogrammetry System** – Prometric Technologies, Markham, Ontario Canada, 1994

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Education

BS, Mechanical Engineering
University of Illinois at Urbana-Champaign, 1984

A.S., Engineering College of DuPage, 1981

Areas of Specialization

Accident Reconstruction

Failure Analysis

Forensic Engineering

Vehicle Components

Vehicle Dynamics

- **Accident Reconstruction using Conservative Momentum & Energy** - Society of Automotive Engineers, Troy, Michigan, 1995
- **Accident Reconstruction State -of-the-Art** - TOPTEC Society of Automotive Engineers, Troy Michigan, 1999
- **The Role of the Seat in Rear Crash Safety** – Society of Automotive Engineers, Troy, Michigan, 2003
- **Occupant and Vehicle Kinematics in Rollovers** – Society of Automotive Engineers, Troy, Michigan, 2005
- **Commercial Vehicle Braking Systems** – Society of Automotive Engineers, Troy, Michigan, 2006
- **The Tire as a Vehicle Component Tire & Wheel Safety Issues** - Society of Automotive Engineers, Troy, Michigan, 2006
- **Crash Data Retrieval (CDR), Technical & Analyst Course** – Collision Safety Institute, Elk Grove, Illinois, 2009
- **Accessing and Interpreting Heavy Vehicle Event Recorders** – Society of Automotive Engineers, Charlotte, North Carolina, 2011
- **Technician Level 1 & 11 Course** – Collision Safety Institute, Northwestern University Center for Public Safety, Evanston, Illinois
- **Crash Data Retrieval (CDR) Data Analyst Course** - Collision Safety Institute Northwestern University Center for Public Safety, Evanston, Illinois, 2013
- **Crash Data Retrieval (CDR) Train-the-Trainer Course** - Collision Safety Institute, Collision Publishing Inc, Houston, Texas, 2014