



**G. STANLEY SANGDAHL III, P.E.**  
**SENIOR CONSULTANT**

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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, water craft, 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.

**Areas of Specialization**

Accident Reconstruction  
Failure Analysis and Forensic Engineering  
Vehicle Components  
Vehicle Dynamics

**Education**

B.S., Mechanical Engineering University of Illinois at Urbana-Champaign, 1984  
A.S., Engineering College of DuPage, 1981

**Licensed Professional Engineer (P.E.)**

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

**Continuing Education**

Level I Ultrasonic Testing 1984  
TRIAD, Schaumburg, Illinois

Traffic Accident Reconstruction 1985  
Northwestern Traffic Institute, Evanston, Illinois

Mechanics of Heavy Trucks 1992  
The University of Michigan, Ann Arbor, Michigan



Heavy Vehicle Rollovers 1993  
SAE TOPTEC, Atlanta, Georgia

RolleiMetric MR2 Photogrammetry System 1994  
Prometric Technologies, Markham, Ontario Canada

Accident Reconstruction Using Conservation 1995 of Momentum & Energy  
Society of Automotive Engineers, Troy, Michigan

Accident  
Reconstruction: 1999 State-  
of-the-Art TOPTEC  
Society of Automotive Engineers, Troy, Michigan

The Role of the Seat in Rear Crash Safety 2003  
Society of Automotive Engineers, Troy, Michigan

Occupant and Vehicle Kinematics in Rollovers 2005  
Society of Automotive Engineers, Troy, Michigan

Commercial Vehicle Braking Systems 2006  
Society of Automotive Engineers, Troy, Michigan

The Tire as a Vehicle Component 2007  
Tire & Wheel Safety Issues  
Society of Automotive Engineers, Troy, Michigan

Crash Data Retrieval (CDR) 2009  
Technician & Analyst Course  
Collision Safety Institute, Elk Grove, IL  
Accessing and Interpreting Heavy 2011  
Vehicle Event Data Recorders  
Society of Automotive Engineers, Charlotte, NC  
Crash Data Retrieval (CDR) 2013

Technician Level I & II Course  
Collision Safety Institute  
Northwestern University Center for Public Safety  
Evanston, IL

Crash Data Retrieval (CDR) 2013  
Data Analyst Course  
Collision Safety Institute  
Northwestern University Center for Public Safety, Evanston, IL



Crash Data Retrieval (CDR) 2014  
Train-the-Trainer Course  
Collision Safety Institute  
Collision Publishing Inc, Houston, TX

## **Positions Held**

### **Engineering Systems Inc., Aurora, Illinois 1987 to Present**

Senior Engineer, Senior Research Engineer,  
Manager – Automotive Engineering, Senior Consultant

### **Packer Engineering Associates, Naperville, Illinois 1976 - 1987**

Lab Technician, Lab Manager, Engineer

## **Publications**

"Step Ladders - Understanding Strength, Stability Key to Accident Investigation"  
C.R. Morin, J.A. Wilkinson, **G.S. Sangdahl**, Claims, June 1995