



G. STANLEY SANGDAHL III, P.E., ACTAR #1533
SENIOR CONSULTANT

gssangdahl@engsys.com

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

Professional Affiliations/Honors

Society of Automotive Engineers

Member since 1986

American Society of Mechanical Engineers

Member since 1985

January 2018

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

Accreditations

The Accreditation Commission for Traffic Accident Reconstruction
Traffic Accident Reconstructionist
September 11, 2004
Renewed September 10, 2009
Registration number: 1533

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