

# H.G. "Gary" Jernigan, BSME

## Mechanical Engineer

### System Engineering And Laboratories (SEAL), Tyler, Tx.

#### Qualifications

• Mechanical Failure Analysis - Defect Related to Loss of Control • Design Performance Evaluation of Mechanical Systems and Components • Crashworthiness Analysis • Accident Investigation and/or Reconstruction for Oil Field, Automotive, Construction Equipment, and Trucking. • Manufacturing Facility Equipment and Construction Related Personal Injury Accidents

#### Certifications

- Certified Safety Instructor, U.S. Dept. of Labor
- Certified Master Mechanic - Automotive, 1973
- Certified Safety Professional, TWCC #0659 (inactive)

#### Experience

1990 - Present	Vice President, Mechanical Engineering, System Engineering And Laboratories (SEAL)
1986 - 1990	Consulting and Forensic engineer, System Engineering And Laboratories (SEAL)
1978 - 1985	Manager of Construction for Baker Tank Company and Altech
1968 - 1978	Senior Engineer for Shell Chemical Company - Maintenance, Startup and Construction
1967 - 1968	Battalion Commander for U.S. Army Center Brigade
1966 - 1967	Maintenance Platoon leader for U.S. Army Corps of Engineers
1965 - 1966	Maintenance Engineer for Shell Chemical Company

#### Education

Bachelor of Science, Mechanical Engineering, Texas A&M University, 1965

Accident Reconstruction & Crashworthiness Seminars:

- Texas A&M, 1986
- SAE International Congress, Detroit, Michigan, 1987
- National Academy of Forensic Engineers, Los Angeles, California, 1988
- Traffic Accident Analysis & Reconstruction, George Washington U School of Engineering & Applied Science, U.T. Tyler, 1990
- Microcomputer Application Programs for Traffic Accident Reconstruction, The Traffic Institute, Northwestern University, 1987
- Engineering Dynamics Corporation, San Antonio, Texas 1991
- SAE Rollover TOPTEC, Scottsdale, Arizona, 1992
- SAE 37th Stapp Car Crash Conference, San Antonio, Texas, 1993
- SAE Sensor Design for Auto Air Bag Systems, Costa Mesa, California, 1995
- SAE Airbag Design and Performance TOPTEC, Costa Mesa, California, 1997

Mechanics of Heavy-Duty Trucks: University of Michigan, 1987

OSHA Compliance: University of Texas at Tyler, Texas, 1989; Recertification 1991

Potential FMEA For Product Design & Development (Design FMEA), SAE, Chicago, Illinois, 1997

Biomechanics For Collision Reconstruction, Texas A&M University, San Antonio, Texas, 1998

World Reconstruction Exposition, Texas A&M University, 2000

HVE/SMAC4 Intro & Workshop, Tyler, Texas, 2001, HVE Forum, New Orleans, Louisiana, 2002

Acceleration and Vericom Familiarization, Vericom Computers, Inc., McKinney Texas, 2002

Basic Motorcycle Operator Training Course, Motorsports Training Center, Longview, Texas, 2002

Applications for the VC3000 Vericom Performance Computer & other Sensors, Houston Police Training Academy, 2006

HVE Forum, San Antonio, Texas, 2007

ARAS 360E Advanced 3D Computer Diagramming for Crash Reconstruction, Conroe, Texas, 2011

#### Memberships

NSPE, National Society of Professional Engineers  
TSPE, Texas Society of Professional Engineers  
NAFE, National Academy of Forensic Engineers, Certified Diplomate  
SAE, Society of Automotive Engineers  
NAPARS, National Association of Professional  
Accident Reconstruction Specialists (past member)

#### Honors

Outstanding Company Cadet  
R.O.T.C. Summer Camp Merit Scholarship, Texas A&M  
Distinguished Military Graduate  
Mechanical Engineering Honor Society  
Outstanding Lt., U.S. Army Engineer Center  
Brigade Ross Volunteer Company  
Governors Honor Guard President's Commendation  
Pentagon Civil Disturbance  
Guest Lecturer on Accident Reconstruction, U.T. Tyler.



U.S. Corps of Engineers  
1966-1968

Battalion Commander, First Lieutenant