

Brian Haygood, P.E.

Consulting and Forensic Engineer

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

Qualifications

• Mechanical Design and Analysis • Finite Element Analysis (FEA) • Vehicle Systems and Dynamics
• Fuel Systems and Fuel Contamination • Crash Data Retrieval (CDR) and Analysis • Off-road and On-road Racing Vehicle Design and Analysis. • Accident Investigation and/or Reconstruction for Oil Field, Automotive, Trucking, Boating, Aviation, and ATVs. • Residential and Commercial Construction Analysis • Computer Aided Design and Drafting (CADD) • Solid Modeling and Visualization • Scanning Electron Microscope (SEM) Operator

Certifications

• PE, Professional Engineer, Texas, #100337
• PE, Professional Engineer, Louisiana, #34803
• PE, Professional Engineer, Oklahoma, #24129
• PE, Professional Engineer, Arkansas, #14229
• ASEL, Private Pilot License
• TWIC - Transportation Worker Identification Credential
• Class B & M Driver's License



Experience

2003 - Present Consulting Mechanical Engineer, System Engineering And Laboratories (SEAL)
2002 - 2002 Application Engineer, Algor Inc., Pittsburgh, PA.
ALGOR Inc. is the world's leading finite element analysis software company, providing static and dynamic analysis for solids, fluids, electrical and heat currents. Responsibilities included assisting domestic and German speaking ALGOR users in producing models in various CAD packages, converting them to F.E.A. models, and devising practical strategies for accomplishing analysis goals
2000 - 2000 Staff Engineer, Automotive Design & Composites, Ltd., San Antonio, Texas.
Responsibilities included Computer Aided Design (using Pro/Engineer) and Finite Element Analysis (using Pro/Mechanica) of vehicle frame and chassis components.
1999 - 2000 Staff Engineer, Inno Tech Engineering Services, San Antonio, Texas.
Responsibilities included Vehicle distortion and trajectory analysis, computer aided drafting using AutoCAD, programming in Excel; site surveying, incident investigation, witness interviews and formal report writing

Education

Rice University, Bachelor of Arts, Biology and Psychology, 1997
University of Pittsburgh, Bachelor of Science, Mechanical Engineering, 2001
HVE Forum, San Antonio, Texas, 2007
Crash Data Retrieval Technician and Analysts, Fort Worth, Texas, 2006, 2014
ARAS 360E Advanced 3D Computer Diagramming for Crash Reconstruction, Conroe, Texas, 2011
SAE, Accessing and Interpreting Heavy Vehicle Event Data Recorders, 2015

Teaching Experience

Pro/Engineer Solid Modeling/CAD, Teaching Assistant, University of Pittsburgh
Professional Engineering (PE) and Fundamentals of Engineering (FE) exam review course instructor
Accredited Instructor, CE Classes in Wind Storm Damage

Memberships

TSPE, Texas Society of Professional Engineers
NSPE, National Society of Professional Engineers
SAE, Society of Automotive Engineers, 1999-2000
UT San Antonio President: Chassis & Suspension
Design Engineer, Fuel Systems Programming