

Brian Haygood, P.E. **Consulting and Forensic Engineer** System Engineering And Laboratories (SEAL)

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, Personal Watercraft, and ATVs. • Residential and Commercial Construction Analysis • Computer Aided Design and Drafting (CADD) • Solid Modeling and Visualization • Scanning Electron Microscope (SEM) Operator

TEACHING EXPERIENCE

Pro/Engineer Solid Modeling/CAD, Teaching Assistant, University of Pittsburgh. Professional Engineering (PE) and Fundamentals HVE Forum, San Antonio, Texas, 2007. of Engineering (FE) exam review course instructor, Edumind, Inc. Accredited Instructor, CE Classes in Wind Storm

Damage.

CERTIFICATIONS

- PE, Professional Engineer, Texas, #100337
- PE, Professional Engineer, Louisiana, #34803
- PE, Professional Engineer, Arkansas, #14229
- ASEL, Private Pilot License
- TWIC Transportation Worker Identification Credential
- Class B & M (Heavy Vehicle & Motorcycle) Driver's License

MEMBERSHIPS

TSPE, Texas Society of Professional Engineers 200 NSPE, National Society of Professional Engineers SAE, Society of Automotive Engineers, 1999-2000 UT San Antonio President: Chassis & Suspension

PUBLICATION

199

Haygood, Brian W. and Mukesh R. Joshi. "Statics." In FE Civil Exam Review Guide, 1st ed., 99-128. Dublin, OH: EduMind, Inc., 2020. Haygood, Brian W. and Mukesh R. Joshi. "Dynamics." In FE Civil Exam Review Guide, 1st ed., 129-158. Dublin, OH: EduMind, Inc., 2020.

EDUCATION

Rice University, Bachelor of Arts, Biology and Psychology, 1997. University of Pittsburgh, Bachelor of Science, Mechanical Engineering, 2001. Crash Data Retrieval Technician and Analysts, Fort Worth, Texas, 2006.

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

SAE Heavy Vehicle Event Data Retrieval and Analysis, 2015. Event Data Recorder Summit, Houston, Texas, 2019.

EXPERIENCE

2003 - Present	Consulting Forensic Engineer, System Engineering
	And Laboratories (SEAL)
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.
2000	Staff Engineer, Automotive Design & Composites, Ltd.,
	San Antonio, Texas. Responsibilities included Computer
	Aided Design (using Pro/Engineer) and Finite Element
	Analysis (using Pro/Mechanical) 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.