



**JOSEPH T. EGANHOUSE**  
**SENIOR STAFF CONSULTANT**

[jteganhouse@engsys.com](mailto:jteganhouse@engsys.com)

Mr. Joseph Eganhouse is a Senior Staff Consultant with over 25 years of experience in mechanical and electrical testing, failure analysis, and accident reconstruction. His experience covers many industries including aerospace, automotive, marine, rail, construction equipment, industrial, and consumer products.

He specializes in the design and implementation of standard and unique test set-ups. In addition, he has extensive experience in mechanical and demonstrative mock-ups.

He is certified in the use of the FARO Focus 3D laser scanner, along with extensive photography and macro photography experience.

**Areas of Specialization**

Vehicle, component and equipment instrumentation, and data acquisition  
Test planning, implementation, and documentation  
Test fixture design and fabrication  
Mechanical and electrical component testing  
Aircraft accident reconstruction  
Site documentation including Faro Focus scanning

**Education**

B.S., Aviation Management, Southern Illinois University, 1989

**Positions Held**

**Engineering Systems Inc., Aurora, Illinois**

Senior Technologist, 1989 - 2005  
Manager of Laboratory Services, 2005 - 2015  
Senior Staff Consultant, 2015 - 2017

*January 2022*

## **Publications/Presentations**

- “Preventing Failures in Elastomeric Resistance Bands,” Shah, Anand R., Brickman, Dennis B., Grzetic, Joseph F., and **Eganhouse, Joseph T.**, Proceedings of the Society of Plastics Engineers Annual Technical Conference, pp. 1-11, Anaheim, CA, May 2017
- “Construction Fall Accident Reconstruction and Safety Analysis,” Knox, E.H., Smith, S.J., **Eganhouse, J.T.**, The XXVIIIth Annual Occupational Ergonomics and Safety Conference, Chicago, IL, June 2016
- “Stepladder Spreader Bar Structural Integrity and the Impact on Accidents,” Van Bree M.P., Knox E.H., Smith K.M., **Eganhouse J.T.**, Proceedings of the ASME International Mechanical Engineering Conference and Exposition, Lake Buena Vista, FL, November 2009
- “Measurement of Thermal Residual Stress Using the Strain Gauge Method,” C.R. Morin, E.H. Knox, M. T. Kenner, G.J. Novak, **J.T. Eganhouse**, presented at the Session on “Tools and Techniques,” Failure Analysis Symposium, Materials Science & Technology (MS&T) Conference and Exhibition, ASM International, Detroit, MI, September 2007