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JASON D. STIGGE, P.E.
SENIOR CONSULTANT

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Mr. Stigge is a degreed Mechanical Engineer and Senior Consultant with Engineering Systems Inc. (ESI). Prior to joining ESI, Jason served in the U.S. Navy with the submarine nuclear propulsion program and understands the mechanical theory and equipment specific to a naval nuclear propulsion plant, as well as the theoretical background of nuclear propulsion technology. In the Navy, he was also involved with reactor and steam plant water chemistry control, as well as personnel and ship radiation and contamination controls.

Following military service while attending the University of Nebraska, he worked in industrial equipment maintenance and repair and has broad experience in mechanical, hydraulic and pneumatic systems, including design, operations, maintenance and repair. Mr. Stigge has expertise in heavy truck and semi-trailer air brake systems, and is proficient in the extraction and analysis of vehicle event data recorders (EDR) to be used in vehicle accident reconstruction.

Mr. Stigge has vast experience with scene, vehicle, equipment and building inspections, photo documentation, evidence collection, generation of computer-aided models, and analysis of data and file material, as well as fixture design, component and materials testing and laboratory analyses and procedures including optical microscopy, metallography and scanning electron microscopy (SEM).

Areas of Specialization

Metallurgical Failure Analysis
Industrial Machinery Failure and Accident Analysis
3-Dimensional Solid Modeling and Fabrication
Automotive Accident Investigation and Reconstruction
Fixture Design and Fabrication
Laboratory and Industrial Testing
Data Acquisition, Instrumented Testing and Analyses
3-Dimensional FARO Focus Laser Scanning
3-Dimensional Printing

Education

B.S., Mechanical Engineering, University of Nebraska-Lincoln, 2012

Licensed Professional Engineer (P.E.)

State of Nebraska License No. E-16927



Professional Affiliations/Honors

Society of Automotive Engineers (SAE)

Member

American Society of Mechanical Engineers (ASME)

Member

Positions Held

Engineering Systems Inc., Omaha, Nebraska

Senior Consultant, 2019 - present
Senior Staff Consultant, 2017 - 2018
Staff Consultant, 2012 - 2017
Technician, 2011 - 2012

Drake-Williams Steel, Omaha, Nebraska

Electrical Mechanical Technician, 2006 - 2010

United States Navy – USS Michigan, SSGN 727, Bangor, Washington

Nuclear Machinist Mate First Class (Submarines) – Engineering Laboratory Technician and Engine Room Supervisor, 2000 – 2006

Continued Education

Aerial Boom and Scissor Lift Operator Certification
Sunbelt Rentals, 2016

Traffic Crash Reconstruction -1
Northwestern University – Center for Public Safety, 2015

Crash Data Retrieval Technician Level 1
Collision Safety Institute, 2014

Air and Foundation Brake Training
Bendix Brake Training School, 2014

Fundamentals of Engineering Exam - 2012

United States Navy Nuclear Prototype and Water Chemistry Schools
Ballston Spa, New York, 2001 - 2002

United States Navy Machinist Mate “A” and Nuclear Power Schools
Charleston, South Carolina, 2001