

Brian J. Smyth
Manager

Professional Profile

Mr. Brian J. Smyth is a Manager based at the Test and Engineering Center located in Exponent's Phoenix, Arizona office. He is responsible for coordinating and conducting a wide variety of testing activities, and specializes in automotive testing. Among other things, these activities include full-scale crash testing, sled testing, inverted drop testing, roof crush testing, and hydraulic load testing of various components. Mr. Smyth has also developed special fixtures and test devices, and has developed new test procedures used to evaluate vehicle crashworthiness. He was instrumental in the development, machine design, and test conduct procedures for the Controlled Rollover Impact System (CRIS), and has been involved in each test where the machine has been used. He is familiar with several of the Federal Motor Vehicle Safety Standards (FMVSS) as well as the industry-wide standard for certifying aircraft seats, SAE document AS8049A. Mr. Smyth is experienced in all aspects of testing including test set-up, instrumentation, data analysis, camera coverage, and photometric analysis.

Prior to joining Exponent, Mr. Smyth worked at Motorsport Design where he designed and tested equipment used on Porsche racecars. In this position, Mr. Smyth used his design, machining, and fabrication skills for the development of braking, suspension, and engine systems. He managed the dynamometer testing of engine components manufactured on-site. He also supported the engine management and data acquisition systems that were onboard these vehicles.

Academic Credentials and Professional Honors

B.S., Aerospace Engineering, Arizona State University, 1992

Scholastic Excellence Award, Arizona State University, 1990

Publications

Smyth BJ, Smith J. Developing a sled test from crash test data. 2007-01-0711, SAE 2007 World Congress, Detroit, MI, April 16-19, 2007.

Cooper ER, Moffatt EA, Curzon AM, Smyth BJ, Orłowski KF. Repeatable dynamic rollover test procedure with controlled rollover impact. 2001-01-0476, SAE 2001 World Congress, Detroit, MI, March 5–8, 2001.

Professional Affiliations

- Society of Automotive Engineers (member)