

Resume of
Joseph D. Skaggs, M.S., P.E.

- Education:** Master of Science, Metallurgical and Materials Engineering, Colorado School of Mines, 1997
Bachelor of Science, Metallurgical and Materials Engineering, Colorado School of Mines, 1994
- Registration:** Mr. Skaggs is a registered professional engineer in Colorado, #37247 and Wyoming, #15824
- Experience:** Senior Materials Engineer, Spectrum Forensics, March 2020 - Present
Senior Metallurgical/Materials Engineer, JENSEN HUGHES (formerly CASE Forensics), Denver, CO, 2016 to present.
Principal, Metallurgical and Materials Engineer, CASE Forensics, Denver, CO, 2001 to 2016
OEA, Inc./Autoliv Inflators, Aurora, CO, 1997 to 2000.
- Forensic Engineering:** Mr. Skaggs conducts materials failure analysis involving overloading, fractures, fatigue, corrosion, and related failure mechanisms. He has casework experience involving pipes and pipe fitting failures, fire protection system components, and construction materials. Additional product failure analysis includes mechanical equipment, electrical controls, weld failures, household appliances and a variety of automotive components. He is experienced with various types of materials including metals, plastics, composites, ceramics, concrete and asphalt. He investigates fires, water damage, personal injury, industrial accidents, vehicle accidents, aircraft failures, structural failures, and electrical failures. He conducts a wide range of product tests and consults to industry on product design and materials selection. He is experienced with welding and joining processes, materials selection and usage, light and electron microscopy, materials characterization, internal ballistics and mathematical modeling.
- In addition, Mr. Skaggs evaluates accidents involving slip, trip and fall, building code and equipment safety, including sound and light evaluations, stairways and handrail configurations, trip hazards and slip resistance of surfaces. He is certified in the use of the English XL Variable Incidence Tribometer.
- Expert Testimony:** As a result of his ongoing forensic engineering practice, Mr. Skaggs has provided expert testimony in court as well as in arbitration and/or mediation proceedings. Mr. Skaggs has testified as an expert in various local and state courts as well as the US Federal Courts.