

Resume of
Bastiaan E. Cornelissen, Ph.D., P.E.

- Education:** Ph.D. Materials Science & Metallurgical Engineering, Colorado School of Mines (2000); M.S Materials Science, University of California at Berkeley (1993), B.S. Metallurgical Engineering, South Dakota School of Mines (1987).
- Registration:** Dr. Cornelissen is a Registered Professional Engineer in Colorado, California, New Mexico, and Arizona.
- Experience:** Principal, Spectrum Forensics LLC, 2015–Present
Principal, Forensic Consultants Group, 2011–Present
Principal, Event Analysis Group, 2008–Present
Senior Associate, Structural Integrity Associates, 2007–2013
Principal Engineer, Jacobson Forensic Engineering, 2000–2007
Senior Engineer, Ponderosa Associates, 2000
Senior Engineer, Knott Laboratory, 1993–2000
Research Associate, CO School of Mines, 1993–1999
Research Assistant, UC Berkeley, 1990–1993
Metallurgist, Anamet Laboratories, 1987–1990.
- Forensic Engineering:** Dr. Cornelissen has applied a multidisciplinary approach to the investigation of several hundred man/machine interactions and failures of engineered materials and devices. He has analyzed personal injury cases involving motor vehicles, conveyor systems, agricultural equipment, oil and gas wells, augers, overhead power lines, and automotive components. His expertise encompasses the analysis of failures in automotive, aerospace, utility, marine, electronics, medical, petroleum, and chemical processing industries. Representative cases involved failure analyses of pipelines, fasteners, heavy truck components, power lines, lifting cranes and oilfield equipment. He has applied his firearms experience and training as a firearms instructor to the analysis and reconstruction of shooting incidents.
- Funded Research:** Dr. Cornelissen was funded by a consortium of major U.S. automotive manufacturers and suppliers to conduct research on improved materials for power train applications. This research led to technical publications and a presentation of selected results at the annual convention of the Society of Automotive Engineers. Other significant sponsored research by Dr. Cornelissen includes an evaluation of the effect of surface finishing technologies for a bearing manufacturer, heat treatment process characterization for a gear supplier, and an evaluation of the effect of carburizing process parameters on fatigue performance for an automobile manufacturer.
- Expert Testimony:** As a result of his investigations, Dr. Cornelissen has provided expert testimony in court as well as during arbitration and mediation proceedings. He has testified on behalf of plaintiffs and defendants in cases involving materials engineering, slips and falls, human factors in man/machine interactions, welding, fastening systems, and warnings and instructions.