

EDUCATION

Master of Biomedical Engineering, Purdue University

Bachelor of Mechanical Engineering, University of Michigan-Ann Arbor

REGISTRATIONS

Professional Engineer in FL, #85879

Professional Engineer in MI, #6201050684

Bosch Crash Data Retrieval Technician and Data Analyst

Certified XL Tribometrist, CXL

AFFILIATIONS

UL STP 2201: Engine, Generator Requirements, Committee Member

ANSI PGMA Committee for G300: Safety and Performance of Portable Generators, Committee Member

ASTM Technical Committee E58 on Forensic Engineering, Committee Member

ASTM Technical Committee F13 on Pedestrian/ Walkway Safety and Footwear, Committee Member

PROFESSIONAL EXPERIENCE

Kimley-Horn and Associates, Inc., Forensic Engineer, 2019 – Present

KSN Engineering Inc., President, 2004 – 2019

J.M. Miller Engineering Inc., Managing Engineer, 1999 – 2019

DaimlerChrysler Co., Chassis Product Engineer, 1997 – 1999; Production Team Advisor, 1996 – 1997

BRADLEY COOK, PE, MSE BIO-MEDICAL/MECHANICAL ENGINEER

Bradley Cook, PE, MSE is a professional engineer specializing in vehicle accident investigation and reconstruction, industrial and construction workplace accidents, premise liability, and product safety. His formal training in mechanical and bio-medical engineering gives him dual expertise to investigate accidents and the resulting injuries. He has performed engineering analyses for hundreds of vehicle accident reconstructions including automobiles, motorcycles, pedestrians, bicycles, and heavy commercial vehicles. The cases typically include vehicle and accident scene inspections, collecting crash data retrieval (CDR) or heavy vehicle data, traffic control analysis, human factors analysis, kinematic analysis, and injury causation. Bradley often creates a computerized accident reconstruction and expert witness reports for submission in court, and providing deposition and trial testimony. Bradley has conducted inspections of general premise liability accidents with respect to applicable building codes and consensual standards. Typical cases have involved slip, trip and falls; automatic door injuries; garage and industrial door failures; parking lot conditions; and stairway falls. He has also analyzed industrial and construction accidents and injuries with occupational safety and health compliance and evaluation in both general industry and construction to with respect to OSHA regulations and industry standards. Bradley also has experience providing product safety hazard analysis with respect to consumer products and injuries. He has performed investigations, testing, research, and analysis of consumer product accidents including children toys, children furniture tip-over, outdoor power equipment, and portable power tools.

His services include:

- **Biomechanical and biomedical engineering:** Injures involving vehicle accidents, medical device malfunctions, child furniture failures, slips / trip and falls, automatic doors, ladders, and more.
- **Accident crash reconstruction:** Passenger vehicles, heavy commercial vehicles, off-highway vehicles, agricultural equipment, tractors, RVs, trains, motorcycles, mopeds, scooters, bicycles, pedestrians, and watercraft using the latest technology including vehicle black box data retrieval, engine control modules, laser scanners, and drones.
- **Workplace accidents:** OSHA compliance in the workplace, forklifts and powered industrial trucks, machine guarding and entanglement accidents, fall protection, portable and fixed ladders, conveyors and material handling, hand tool and power tool safety, Job Safety Analysis (JSA), and risk assessment and management.
- **Premises liability:** Certified slip resistance testing, COF, footwear evaluation, floor material certification, building code compliance, and ADA compliance.
- **Mechanical failure analysis and product safety** including consumer products, outdoor power equipment, children products, playground safety, design defects, and manufacturing defects.
- **Litigation support and expert testimony.**

PUBLICATIONS

- Wogalter, M.S. Ed. (2019). Forensic Human Factors and Ergonomics: Case Studies and Analyses. Boca Raton, FL: Taylor & Francis Group, CRC Press.
- Lehto, M.R., Cook, B.T., "Occupational Health and Safety Management," Chapter 25 in Handbook of Human Factors and Ergonomics, fourth edition Salvendy, G. (ed), John Wiley & Sons, NY, March 2012.

Kimley»Horn

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BRADLEY COOK, PE, MSE (CONTINUED) BIO-MEDICAL/MECHANICAL ENGINEER

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