



Stephen Markley, MET

Structural/Civil Engineer

Applying structural/civil engineering principles to the analysis of defects in design and construction of buildings and roads, accident reconstruction as applied to buildings, roads, and construction safety. Products that rely on the art of applied science of structural and civil engineering for their design functionality and safety are heavily emphasized.



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PROFESSIONAL EXPERIENCE

Mechanical Engineer/Technician

MK & Associates, LLC

Provides forensic investigation and analysis services in vehicular accidents, with a specialized focus on motorcycle crash reconstruction and motorcycle stability. Applies engineering principles and field experience to evaluate crash dynamics, vehicle performance, and contributing mechanical or environmental factors.

Key Account Manager

Trelleborg Industrial Products USA, Inc.

Led global business development for major OEMs across the Automotive, Off-Highway, Truck and Bus, Marine, Rail, Powersports, and Industrial sectors. Collaborated with international design, operations, and customer service teams to deliver advanced solutions in noise, shock, and vibration isolation.

Adjunct Instructor

Gaston College in Gastonia, NC

Managed a team of Nationally Certified Rider Coaches and maintained a fleet of 18 motorcycles in compliance with the North Carolina Motorcycle Safety Education Program standards. Oversaw training operations, vehicle maintenance, and safety protocol implementation.

Project Engineer

Husqvarna Outdoor Products, North America

Managed the implementation of new powertrain and system modules for self-propelled walk-behind lawnmowers. Developed design guidelines and established pass/fail criteria for lifecycle testing to ensure durability and performance standards.

Chassis Design Engineer

Indian Motorcycle Company

Designed chassis and powertrain systems for Indian Chief Motorcycle variants, focusing on suspension, frame, swingarm, brake, and exhaust components. Led corrective actions for development and supplier quality issues and oversaw prototype and pilot builds.

INTERESTS

Motorcycles

Aviation

Knights of Columbus

The American Legion

Writing

EDUCATION

Gardner-Webb University

*Master of Arts,
Business Management*

North Carolina Justice academy

*Investigation & Analysis of Tire
Failures
Motorcycle Crash Investigation*

Caldwell Community College

*Motorcycle Safety Foundation Rider
Coach (Certification № 159484)*

University of Tennessee

*Lean Manufacturing and Six-Sigma
Black Belt*

Behrend College of Penn State University

*Bachelor of Science, Mechanical
Engineering Technology
Associates of Science, Engineering
Technology*

SOFTWARE

CAD: Pro/Engineer Wildfire, Auto-CAD
Inventor, Solid Edge, Solid Works, and
Catia

ERP/MRP: Dynamics 365, SAP, AS400,
Infor M3, and Movex

Senior Design Engineer & Design Engineer

LORD Corporation

Designed and validated rubber-to-metal components for noise, shock, and vibration isolation across automotive, off-highway, rail, marine, and industrial markets. Conducted field testing and data acquisition for system validation, performed rigid-body and modal analyses using proprietary software, and specified lab test criteria for benchmarking and fatigue testing. Later served as engineering liaison for global manufacturing teams, leading complexity reduction initiatives and strategic part sourcing.

Sr. Designer

Volve Construction Equipment, Inc., North America

Designed anti-vibration engine mounts and ROPS-compliant operator cabins for skid steer loaders, and optimized cab designs for soil and asphalt vibratory compactors to enhance operator comfort and part commonality. Specified vibration isolation systems in collaboration with suppliers. Completed Lean Manufacturing and Six Sigma training through the University of Tennessee in coordination with the Volvo Group.

Aviation Ordnanceman

US Navy

Served as an Aviation Ordnanceman in the U.S. Navy with leadership roles aboard aircraft carriers during Operations Southern Watch and Restore Hope. Supervised ordnance assembly, inspection, and at-sea loading operations, and led maintenance programs for F-14A armament systems. Earned distinction as an Enlisted Aviation Warfare Specialist. Honorably discharged at the rank of E-5.