

Adam Mills | Forensic Mechanical Engineer, PE, NCTI

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Professional Summary:

Mr. Mills is a licensed professional engineer in multiple states and has over 15 years of engineering experience. Mr. Mills began his career providing engineering services for the heavy machinery industry, including power and cement plants, and heavy movable structures. He has prepared designs for mechanical systems, including hydraulic and power transmission machinery, and has performed stress analysis and machinery loading calculations. Mr. Mills provided on-site technical support and troubleshooting during the installation and commissioning of new and rehabilitated machinery. He has also performed hundreds of inspections and testing of various machinery systems.

Mr. Mills utilized his past engineering and hands-on experience when entering the forensic engineering field. Mr. Mills has experience conducting loss investigations and providing consulting services on the topics of mechanical and fire protection engineering. Mr. Mills' expertise include, but are not limited to:

- Mechanical failures
- HVAC systems
- Water losses and plumbing failures
- Vehicle forensics
- Fire protection systems
- Analyzing and interpreting codes and standards

Licenses and Certifications:

Professional Engineer, Pennsylvania, #PE093183

Professional Engineer, New Jersey, #24GE05165300

Professional Engineer, Maryland, #5415047

Professional Engineer, Delaware, #27088

Professional Engineer, Washington DC, #PE40000654

Professional Engineer, Virginia, #402064970

Professional Engineer, New York, #106119

Professional Engineer, North Carolina, #048368

Professional Engineer, Florida, #78907

National Engineering Registration, NCEES, #13-169-24

National Certified Tunnel Inspector, Federal Highway Administration & National Highway Institute

Certified Fireplace and Chimney Inspector, Fireplace Investigation, Research & Education Service

OSHA and MSHA certifications

Professional Experience:

EFI Global Inc., Forensic Mechanical Engineer, 2021 to Present
Wiss, Janney, Elstner Associates Inc., Associate III, 2019 - 2021
Stafford Bandlow Engineering Inc., Mechanical Engineer, 2010 - 2019
FLSmith Inc., Mechanical Engineer, 2008 - 2010

Specialized Education:

Fireplace & Chimney Inspection Program, F.I.R.E., 2023
Explosion Dynamics, IAAI, 2023
Fire Chemistry, IAAI, 2023
Fire Flow Analysis, IAAI, 2022
Investigating Motor Vehicle Fires, IAAI, 2022
Electric Vehicle Design and Performance, Decatur Professional Development, 2022
Bosch Vehicle Crash Data Retrieval Kit Training, Crash Academy, 2021
Responding to Weld Flaws and Defects, WJE, 2021
Tunnel Safety Inspection, FHWA & NHI, 2021
Safety Inspection of In-Service Bridges, NHI, 2021
Temporary Traffic Control, MDOT SHA, 2020
Bridge Impact Repairs for Fracture Critical Member, H&H, 2020
Rehabilitation of Movable Bridges: Design & Construction, ASCE-SEI, 2020
Ethical Issues in Design-Build, CPE Solutions, 2020
Fluid Power – Hydraulic Power Units, CPE Solutions, 2020
Fluid Power – Hydraulic Principles, CPE Solutions, 2019
Fluid Power – Hydraulic Components, CPE Solutions, 2019

Education:

Bachelor of Science, Mechanical Engineering, University of Pittsburgh, Pittsburgh, PA, 2008

Publications and Presentations:

Mills, Adam. "Transverse Misalignment and Load Sharing Complications." Heavy Movable Structures Symposium. January 2021
Mills, Adam & Giernacky, Ralph. "Movable Bridge Balance and Counterweight Design Considerations." Heavy Movable Structures Symposium. September 2016

Court Qualifications/ Depositions:

Litigation CV available upon request.