



Anthony Yurko

PE

Senior Managing Engineer

Department

Engineering Services

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Locations

Cleveland, OH
Cincinnati, OH
Columbus, OH
Detroit, MI

Biography

Anthony (Tony) Yurko is a Senior Managing Engineer at YA Group with extensive experience in mechanical engineering, forensic analysis, and consulting. He supports YA Group through large-loss evaluations and scope-of-damage assessments, leveraging his broad technical background to address complex mechanical failures and incident scenarios. He maintains licensure in 13 states and provides expert guidance and solutions across a wide range of engineering challenges.

Prior to joining YA Group, Tony designed, tested, and manufactured solid propellant rocket motors at Allegany Ballistics Laboratory (ABL). Following his work at ABL, he transitioned into consulting engineering with a focus on accident reconstruction and general mechanical engineering evaluations. As a HAAG-certified engineer, he has supported numerous civil investigations stemming from catastrophic weather events and is also a certified fire investigator, contributing detailed technical analysis in post-incident environments.

Tony has been deposed numerous times and has provided expert testimony in court on accident reconstruction matters and other engineering issues. His industry experience spans mechanical systems, forensic failure analysis, and investigative engineering, supported by specialized training and professional certifications. Tony can provide expert investigative, litigation, and resolution support across a wide range of engineering challenges.

Credentials

- PE | Professional Engineer
- HAAG Certified Inspector - Residential
- NAFI Certified Fire and Explosion Investigator (CFEI #16707-9045)
- NAFI Certified Vehicle Fire Investigator (CVFI #16707-9045v)

Representative Consulting Assignments

- Paint Factory Explosion | Columbus, Ohio | Evaluate if newly installed manway on mixing kettle contributed to release of explosive gas
- Aluminum Wheel Manufacturing Plant | Akron, Ohio | Evaluation of the damage scope and reparability of damages to equipment due to fire
- Pharmaceutical Plant | Indianapolis, Indiana | Evaluation of multiple boiler failures to a newly installed hot water system
- Single Vehicle Rollover Resulting in Ejection and Death | Charleston, West Virginia | Determine who was driving using ballistic analysis of ejected person
- Two Vehicle Accident | Charleston, West Virginia | Determine who ran red light
- Roof Exam | Cleveland, Ohio | Determine if roof is damaged due to wind and hail
- Tree Strike to Residence | Lansing, Michigan | Determine scope of damage

due to tree strike

- Chimney Exam | Cincinnati, Ohio | Determine if chimney flue is damaged due to chimney fire
- Gas Release from 60 lb Propane Tank | Pittsburgh, Pennsylvania | Determine if propane tank was overfilled

Professional Experience

- 2024 - Current | Senior Managing Engineer | YA Engineering Services
- 2011 - 2024 | Consulting Engineer | Engineering Design & Testing Corp.
- 1987 - 2010 | Mechanical Engineer | Allegany Ballistics Laboratory

Area of Practice

- Accident Reconstruction
- Damage Assessment
- Failure Analysis
- Fire Origin & Cause
- HVAC and Mechanical Systems
- Motorcycle Accident Reconstruction
- Plumbing Systems
- Roofing
- Failure Analysis of Materials and Components

Publications and Presentations

- Case Studies in Graphitic Corrosion of Cast Iron Pipe, Journal of Failure Analysis and Prevention, Volume 21, Number 2, 2021.
- "Affordable High-Performance Composite Case Rocket Motor Manufacturing," AIAA-2005 3610, July 2005.

Education

- West Virginia University - Bachelor of Science - Mechanical Engineering - Morgantown - West Virginia
- West Virginia University - Master of Science - Mechanical Engineering - Morgantown - West Virginia
- Frostburg State University - Master of Business Administration - Frostburg - Maryland

Affiliations

- American Society of Mechanical Engineers (ASME)
- National Society of Professional Engineers (NSPE)
- Society of Automotive Engineers (SAE)
- National Association of Professional Accident Reconstruction Specialist (NAPARS)
- National Association of Fire Investigators (NAFI)
- International Association of Arson Investigators (IAAI)

Licenses

- PE.75822 - Ohio - Professional Engineer
- PE079007 - Pennsylvania - Professional Engineer
- 103195 - New York - Professional Engineer
- 6201064001 - Michigan - Professional Engineer

- PE11600217 - Indiana - Professional Engineer
- 49598-6 - Wisconsin - Professional Engineer
- 016217 - West Virginia - Professional Engineer
- 27900 - Kentucky - Professional Engineer
- 31467 - Maryland - Professional Engineer
- 0402051102 - Virginia - Professional Engineer
- PEN.0033046 - Connecticut - Professional Engineer
- 15729 - New Hampshire - Professional Engineer
- 34100-PE - Alabama - Professional Engineer