



## James Grey

### Technician

#### Department

Engineering Services

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#### Locations

Columbia, SC

## Biography

James Grey has over 25 years of experience as an engineering technician specializing in accident reconstruction and property loss investigations. He has worked with engineering teams to investigate incidents involving vehicles, tractor-trailers, motorcycles, and pedestrians.

James is skilled at using advanced tools, such as the FARO 3D laser scanner and survey total station, to create CAD drawings, 3D models, and animations from raw data. His expertise includes site and vehicle inspections, tractor-trailer brake examinations, and data recorder analysis.

In addition to fieldwork, James has assessed subrogation potential for components and appliances and has laboratory experience in metallurgical sample preparation. He is also certified as an FAA drone pilot and HAAG residential roof inspector and documents accident scenes and weather-related damage through photography, 3D scanning, and site surveys.

James supports mechanical, industrial, civil, and electrical engineers, helping document accident sites, industrial facilities, and damaged structures. Known for his problem-solving skills and attention to detail, he is committed to learning and professional growth. He holds an Associate Degree in Engineering Graphics Technology from Midlands Technical College in Columbia, South Carolina.

## Credentials

- FAA Certified Drone Pilot
- HAAG Certified Inspector - Residential

## Professional Experience

- 2024 - Current | Technician | YA Group
- 1999 - 2024 | Engineering Technician | Engineering Design & Testing Corp.
- 1997 - 1998 | Steel Detailer | The Steel Group
- 1996 - 1997 | Work Study | Department of Veterans Affairs
- 1993 - 1995 | Machinest | Oxford Accessories
- 1992 - 1993 | Line Trunk Operator | Eddins Electric Company
- 1989 - 1992 | Corporal | United States Marine Corps

## Area of Practice

- Accident Reconstruction
- Graphics & Animation
- Roofing
- Drone Pilot

## Publications and Presentations

- April 2021 - Case Studies in Graphitic Corrosion of Cast Iron Pipe, Journal of Failure Analysis & Prevention, Volume 21, Issue 2, April 2021, pp. 376-386 and online <https://rdcu.be/ccX3F>, January 2021, with Tim A. Jur, Anthony A. Yurko III, Ronald L. Windham, James R. Grey Jr,

## Education

- Midlands Technical College - Associate in Engineering Technology - Engineering Graphics - Columbia - South Carolina

## Training Courses

- Exposure Category Determination and Impact on Residential Structures - 2023
  - Greases and Oils: Preventing Lubrication Related Issues - 2023
  - HAAG Certified Inspector - 2022
  - Impact Damage to Asphalt Shingle Roof Covering - 2021
  - Metallographic Preparation of Soft and Ductile Metals and Alloys - 2019
  - Metallographic Techniques - 2019
  - Introduction to Metallurgical Lab Practices - 2019
  - Metallurgy for the Non-Metallurgist - 2018
  - Requirements for Roadway Conditions - 2016
  - 3D Laser Scanner Operational Training - 2015
  - Quantifiable Driver Response Decisions - 2013
  - Tire Construction and Defects - 2013
  - Fire Suppression Systems - 2013
  - 3D Project Based Course - 2008
  - 3D Foundation Workshop - 2008
  - Confined Spaces - 2008
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