

MELANIE PORTER, ACTAR, EIT

EDUCATION:

B.S. in Mechanical Engineering, Florida State University, Tallahassee, FL, 2021

REGISTRATION:

Accredited Traffic Accident Reconstructionist (ACTAR), Registration No. 5292
Engineer in Training (EIT), Florida, NCEES ID 23-045-77

EXPERIENCE:

Accident Reconstructionist, Knott Laboratory, LLC, Centennial, Colorado, November 2025 to Present

Project Engineer, Quest Engineering & Failure Analysis, Tallahassee, Florida, August 2022 to October 2025

Manufacturing Engineering Intern, Heatcraft Worldwide Refrigeration, Tifton, Georgia, May 2019 to August 2019



ACCIDENT RECONSTRUCTION:

Ms. Porter has assisted with numerous investigations and reconstructions of motor vehicle collisions involving passenger vehicles, commercial vehicles, motorcycles, bicycles, and pedestrians. In addition, Ms. Porter has assisted with investigations pertaining to personal injury and product liability, which often involve analysis of vehicle dynamics and vehicle safety. Frequent aspects of these investigations involve assessing the performance of vehicle crush, steering, suspension, brakes, tires, seatbelts, and airbags. Ms. Porter has assisted in several visibility studies and has been involved in vehicle testing.

Ms. Porter utilizes the latest technologies available in accident reconstruction throughout all analysis stages, from gathering evidence through accident reconstruction. Ms. Porter has been trained on the use of specialized tools and instruments for use during forensic investigations, including high-definition laser scanners and the Bosch Crash Data Retrieval (CDR). Ms. Porter is certified in Bosch crash data retrieval (CDR) and has retrieved and analyzed crash data from electronic vehicle event data recorders (EDR) in passenger vehicles. Ms. Porter has experience and training in analysis of crash data from electronic data recorders in passenger vehicles and commercial vehicles, 3D data manipulation and analysis, photogrammetry, accident simulation, and accident reconstruction techniques. Ms. Porter is familiar with safety standards, such as the Federal Motor Vehicle Safety Standards (FMVSS) and Federal Motor Carrier Safety Regulations (FMCSR).