

SABINE BRANFORD

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TRAFFIC ACCIDENT
RECONSTRUCTION

EDUCATION

WAYNE STATE UNIVERSITY

BS Mechanical Engineering 2025

AFFILIATIONS

SAE International
The Order of the Engineer

PROFESSIONAL PROFILE

Ms. Sabine Branford earned her Bachelor of Science in Mechanical Engineering from Wayne State University. During her undergraduate studies, she was a student-athlete on the university's swim team, where she developed strong skills in time management, teamwork, and adaptability.

Before joining Explico, Ms. Branford completed an internship with Hanon Systems, where she conducted airflow testing, analyzed performance data, and developed strategies to enhance HVAC system control — gaining valuable hands-on experience in real-world engineering applications.

Ms. Branford is beginning her career in accident reconstruction as an Associate Scientist at Explico. Her work focuses on the investigation and reconstruction of vehicle collisions. She assists with the inspection of vehicles and incident sites, reviews incident-related materials, and supports accident analysis and reconstruction. She applies fundamental physics principles to evaluate vehicle dynamics and assess collision-related damage.

Ms. Branford is dedicated to continually developing her professional and technical expertise in the field of accident reconstruction.

AREAS OF EXPERTISE

MATLAB with Simulink
CAD / Technical Drawings

EXPERIENCE

Explico

2025 - Present

Associate Scientist

Hanon Systems

2024

Mechanical Engineering Intern

AWARDS / HONORS

Dean's Award, 2021-2025

PROFESSIONAL DEVELOPMENT

Federal Aviation Administration (FAA)

Unmanned Aircraft General - Small (UAG), Southfield, MI , June 2025

Northwestern University Center for Public Safety

Crash Data Retrieval System Operators Course, Aurora, IL, November 2025

Recon3D

Recon3D Online Training Course, June 2025