

# SABINE BRANFORD

248.595.9025  
sbranford@explico.com

TRAFFIC ACCIDENT  
RECONSTRUCTION

## EDUCATION

### WAYNE STATE UNIVERSITY

BS Mechanical Engineering 2025

## AFFILIATIONS

Society of Automotive Engineers  
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

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### Explico

2025 - Present

*Associate Scientist*

### Hanon Systems

2024

*Mechanical Engineering Intern*

## AWARDS / HONORS

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Dean's Award, 2021-2025

## PROFESSIONAL DEVELOPMENT

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### 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