

ROBERT J. ALANIZ
CURRICULUM VITAE

EDUCATION

B.S. Mechanical Engineering 2013
The University of Texas at San Antonio
San Antonio, Texas

PROFESSIONAL EXPERIENCE

Graduate Engineer 2019-Present
Biodynamic Research Corporation
San Antonio, Texas

Product Development Engineer 2014-2019
National Oilwell Varco
San Antonio, Texas

Engineer Internship 2013
Honda R&D Americas, Inc.
Raymond, Ohio

CERTIFICATIONS & CONTINUING EDUCATION

FARO Laser Scanner Forensics Onsite Training 2026
Bobby Jones – Authorized FARO Instructor
San Antonio, TX

2026 Response User Forum 2026
Driver Research Institute
San Antonio, TX - Zoom

Webinar: Speed from Video 2025
Lightpoint Data

Webinar: Exploration of Motorcycle Data Sources Lightpoint Data	2025
VoD: Roadway Evidence, Safety Belt Examination, Tire Examinations Institute of Police Technology and Management University of North Florida	2025
Hyundai-Kia & Tesla EDR Tools Technician (online) Institute of Police Technology and Management University of North Florida	2025
PhotoModeler for Collision Investigation PhotoModeler Technologies	2025
Recon-3D Training Course Recon-3D Inc.	2025
The Successes, Limitations, and Future of Automatic Emergency Braking (AEB) NAPARS Online Seminar	2025
Zero to Hero in CloudCompare Ai2-3D	2025
Reconstruction and Analysis of Rollover Crashes of Light Vehicles Society of Automotive Engineers	2024
Vehicle Crash Reconstruction: Principles and Technology Society of Automotive Engineers Marina del Rey, California	2024
SAE International Accident Reconstruction Digital Summit	2024
Driver Distraction from Electronic Devices Society of Automotive Engineers	2023
The Fundamentals of Automotive All-Wheel Drive Systems Society of Automotive Engineers	2023

Applied Vehicle Dynamics Society of Automotive Engineers Greer, South Carolina	2023
Accessing and Interpreting Heavy Vehicle Event Data Recorders Society of Automotive Engineers Oxnard, California	2022
FAA Aviation Safety FAA Safety Team Aviation Learning Center Online Course Part 107 Small UAS Recurrent	2022
Webinar: Elevating Collision Reconstruction Analyses with Laser Scanned Exemplars Organization: Lightpoint Scientific	2021
Webinar: Using Exemplar Vehicle Point Clouds for Improved Collision Investigation & Reconstruction Organization: Lightpoint Scientific	2021
Certificate of Participation FARO Freestyle 2 San Antonio, Texas	2021
Traffic Crash Reconstruction I & II Northwestern University Center for Public Safety Evanston, Illinois	2020
Bosch CDR Tool Technician Training Course (online) Institute of Police Technology and Management University of North Florida	2020
Certificate of Participation Event Data Recorder (EDR) San Antonio, Texas	2020
Certificate of Participation FARO Zone 3D Software Advanced Animation San Antonio, Texas	2020

Certificate of Participation FARO Focus Scanner and Scene Software San Antonio, Texas	2020
Certificate of Participation FARO Zone 3D Crash Power Tools San Antonio, Texas	2020
Certificate of Participation FARO Scanner Data and 3D Technology in the Courtroom San Antonio, Texas	2020
Certificate of Participation FARO Zone 3D Software Basic User Interface San Antonio, Texas	2020
Federal Aviation Association Remote Pilot-in-Command Certification Hallmark University San Antonio, Texas	2020
Engineer in Training EIT Certification No. 50094	2013

PROFESSIONAL AFFILIATIONS

Certified Accident Reconstructionist Society of Automotive Engineers	2024 - Present
National Association of Professional Accident Reconstruction Specialists	2024 - Present
The Accreditation Commission for Traffic Accident Reconstruction (ACTAR #4144)	2021-Present
Society of Automotive Engineers	2022 - Present
Formula SAE University of Texas at San Antonio	2011-2013

PRESENTATIONS AND INVITED LECTURES

Crash Scene Investigation
Youth Transportation Safety Summit
San Antonio, Texas

2023