



1174 Oak Valley Drive  
Ann Arbor, MI 48108

## **JACOB A. STEGEMANN, P.E.**

### **SENIOR CONSULTANT**

[jstegemann@engsys.com](mailto:jstegemann@engsys.com)

Mr. Jacob Stegemann is a Mechanical Engineer and a Senior Consultant for Engineering Systems Inc (ESi). Mr. Stegemann is a licensed Professional Engineer. He specializes in automotive accident investigation and reconstruction for recreational, commercial and passenger vehicles. He is also experienced in vehicle and biomechanical instrumentation, imaging and interpreting event data recorders, scene documentation, 3D laser scanning and drone photography. Mr. Stegemann handles artifact chain of custody documentation for the Michigan office.

Mr. Stegemann has extensive experience in the inspections of vehicles, buildings, accident sites and fire scenes. He is experienced in generating 2D and 3D computer aided models and vehicle and pedestrian crash simulations.

#### **Areas of Specialization**

3-Dimensional Modeling  
Artifact Handling  
Automotive Accident Investigation/Reconstruction  
Certified FARO Operator  
Data Acquisition & Data Analysis  
FAA Certified sUAS Pilot  
Imaging & Analyzing Event Data Recorders for Light & Heavy Vehicles  
Mechanical & Biomechanical Testing

#### **Education**

B.S.E., Mechanical Engineering, University of Michigan, Ann Arbor, MI, 2016

#### **Professional Licensures**

State of Michigan Professional Engineers, License No. 6201070428  
FAA UAS Remote Pilot

#### **Professional Affiliations/Honors**

Society of Automotive Engineers (SAE)  
Member

*January 2025*



## **Positions Held**

Engineering Systems Inc., Ann Arbor, MI  
Senior Consultant, 2024 – Present  
Senior Staff Consultant, 2023 – 2024  
Staff Consultant, 2020 – 2023  
Associate Consultant, 2016 – 2019  
Engineering Intern, 2016

RLE International, Ann Arbor, MI  
Engineering Intern, 2015 – 2016

Fiat Chrysler Automobiles, Detroit, MI  
Engineering Intern, 2015

Germain Honda of Ann Arbor, Ann Arbor, MI  
Service Department Porter, 2013 – 2014

## **Continued Education**

DroneU sUAS Flight and 3D Photogrammetry Training  
DroneU, Loveland, CO, 2024

Bendix Brake School Training  
Certificate of Virtual Training, Bendix, 2024

Accessing and Interpreting Heavy Vehicle Event Data Recorders  
Certificate of Achievement, SAE International, Fontana, CA, 2023  
SAE Accident Reconstruction Certificate Program, Required Course

Event Data Recorder Update and Analysis  
Ruth Consulting, Atlanta, GA, 2023

Accident Reconstruction, The Autonomous Vehicle and ADAS  
Certificate of Achievement, SAE International, 2022

Bosch® CDR Tool Technician Training by IPTM – Online  
Institute of Police Technology and Management, University of North Florida, 2022

Applying Automotive EDR Data to Traffic Crash Reconstruction  
Certificate of Achievement, SAE International, 2021

Traffic Signal Timing Records Interpretation and Analysis  
Traffic Signal Academy, University of Tennessee, 2020

HVE Forum  
Certificate of Completion, Engineering Dynamics Corporation, Austin, TX, 2020



Sunbelt Rentals, Aerial Work Platforms  
Certificate of Training, Ypsilanti, MI, 2019

Traffic Crash Reconstruction I  
Northwestern University for Public Safety, Ann Arbor, MI, 2019  
Applied Vehicle Dynamics Course  
Autobahn Country Club, Joliet, IL, 2018

Photogrammetry and Analysis of Digital Media  
SAE International, Certificate of Achievement, Troy, MI, 2018

FARO Focus 3D Operator  
Certificate of Training, Ann Arbor, MI, 2018

Human Factors in Traffic Crash Reconstruction  
Institute of Police Technology Management, University of North Florida, Fort Myers, FL, 2017

Vehicular Crash Reconstruction Methods Seminar, SAE International  
Certificate of Achievement, Troy, MI, May 2016, Timron Scientific Consulting, Inc.

## **Publications/Presentations**

“Inclusion of Tire Forces into Low-Speed Bumper-to-Bumper Crash Reconstruction Simulation Models,”  
R.M. Brach, **J. A. Stegemann**, E.J. Manuel, N.E. Civitanova. SAE International 2024-01-2479,  
Published 09 Apr 2024.

Technical Review, “CPSC All-Terrain Vehicle Research,” Consumer Product Safety Commission  
Presentation. June 2019.

“The Kinematic Analysis of Occupant Excursions and Accelerations During Staged Low Speed Far-Side  
Lateral Vehicle-to-Vehicle Impacts,” P.A. Shibata, J.M. Roberts, J.K. Sprague, A.E. Light, **J.A.  
Stegemann**, M. Meza-Arroyo, S.P. Capser. SAE Technical Paper 2019-01-1030, 2019.

“Analysis of an Unexpected Impact to the Crown of the Head,” P.A. Shibata, A.L. Stern, J.M. Roberts, **J.A.  
Stegemann**, Proceedings of The XXVIIIth Annual International Occupational Ergonomics and  
Safety Conference, Chicago, IL, pp. 126-131, June 9-10, 2016.