



1174 Oak Valley Drive  
Ann Arbor, MI 48108

## **JACOB A. STEGEMANN, P.E. SENIOR STAFF CONSULTANT**

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Mr. Jacob Stegemann is a Mechanical Engineer and a Senior Staff 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**

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

### **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

*August 2024*



## **Positions Held**

### **Engineering Systems Inc., Ann Arbor, MI**

Senior Staff Consultant, 2023 – Present  
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**

### **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**

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.R. Roberts, **J.A. Stegemann**, "Proceedings of The XXVIIIth Annual International Occupational Ergonomics and Safety Conference, Chicago, IL, pp. 126-131, June 9-10, 2016