



3310 Green Park Circle  
Charlotte, NC 28217

**JOSHUA C. ROGERS, PE  
SENIOR CONSULTANT &  
SOUTHEAST REGIONAL VICE PRESIDENT**

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

Mr. Joshua Rogers is a Mechanical Engineer and Senior Consultant for Engineering Systems Inc. (ESi), where he assists the Automotive Research and Accident Reconstruction team. His professional experience includes failure analysis, machine design, process implementation for machine elements and subassemblies, and performance and analysis of bearing components and assemblies used in a variety of engineering applications including automotive, heavy truck, mining, construction, and agriculture. Mr. Rogers' expertise encompasses machine design, manufacturing technologies, and automotive systems analysis.

**Areas of Specialization**

Bearing Design and Applications  
Bearing Failure Analysis  
Failure Analysis and Troubleshooting  
Process and Machinery  
Accident Investigation  
Automotive Research  
Mechanical Engineering  
Mechanics and Materials  
Design Process and Process Management  
Accident Reconstruction

**Education**

B.S., Mechanical Engineering, University of North Carolina-Charlotte

**Licensed Professional Engineer (P.E.)**

State of North Carolina .....License No. 046054

**Professional Affiliations**

**American Society of Mechanical Engineers (ASME)  
Society of Automotive Engineers (SAE)**

*May 2024*



## Positions Held

### **Engineering Systems Inc., Charlotte, North Carolina**

Senior Consultant, 2020 to Present  
Southeast Regional Vice President, 2024 to Present  
Manager of North Carolina Operations, 2019 to 2024  
Senior Staff Consultant, 2018 to 2020  
Staff Consultant, 2015 to 2018

### **Schaeffler Group, Fort Mill, South Carolina**

Applications Engineer, 2011 to 2015

## Specialized Training & Certifications

Bendix Comprehensive Air Brake Systems Training, 2015  
FARO Focus 3D Scanner Certification Program, 2015  
Northwestern University Accident Investigations Course, 2016  
Vehicle Crash Reconstruction Methods, SAE International, 2016  
PC Crash Training, 2016  
PC Crash Training, 2017  
Human Factors in Traffic Crash Reconstruction, Institute of Police Technology & Management (IPTM), 2017  
PC-Crash Advance Training, 2018  
Applied Vehicle Dynamics Course, Autobahn Country Club, PowerTrain Technology & Precision Auto Research, 2018  
Bosch CDR Tool Technician Training, Institute of Police Technology & Management (IPTM), 2018  
Traffic Crash Reconstruction for the Forensic Engineer, Northwestern University, 2019  
Traffic Signal Timing Records Interpretation & Analysis, Traffic Signal Academy, University of Tennessee, 2020  
Accessing and Interpreting Heavy Vehicle Event Data Recorders, SAE International Professional Development Program, Oxnard, California, 2021  
Commercial Vehicle Crash Investigation, Institute of Police Technology and Management, University of North Florida, Jacksonville, Florida, 2022  
Event Data Recorder Update and Analysis, Ruth Consulting, 2023

## Publications/Presentations

### **Publications:**

“Sensitivity Analysis of Various Vehicle Dynamic Simulation Software Packages Using Design of Experiments (DOE)”, R. Matthew Brach, Shawn Capser, Emmanuel Jay Manuel, Joshua Rogers, Robert Bailey, Paper 2020-01-0639, SAE International, Warrendale, PA, 2020.



**Presentations:**

Rogers JC, "Bearings 101", Schaeffler Group – Provided to Hilliard Corporation, Elmira, NY, 2013

Rogers JC, "Bearings 101", Schaeffler Group – Provided to Vermeer Corporation, Pella, IA, 2014

Rogers JC, Stern AR. "Low-Speed Vehicle Collision Analysis." FCCI Florida Claims Seminar, Sarasota, Florida: October 9, 2018.

Rogers, JC, Stern, AR. "Heavy Truck Rollovers: Occupant Injury & Kinematics." NCADA Webinar, September 14, 2022.

Rogers, JC, "Integrating Vehicle and Occupant Simulations with Human Factors", NCADA Fall Meeting, October 6, 2023.

**Strategic Task Groups and Committees**

Member of SAE Data Collection and Archiving Standards Committee, 2017