

Matthew D. Russo

Address:

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<http://www.cummingsci.com> www.linkedin.com/in/matt-d-russo

Education:

B.S. – Florida State University, Tallahassee, FL
Mechanical Engineering with minors in Physics and Mathematics

Significant Coursework:

Chemistry with Laboratory Experience, Physics with Laboratory Experience, Statics, Dynamics with Laboratory Experience, Materials Science with Laboratory Experience, Mechanics of Materials, Mechanical Systems, Electricity and Circuits, Thermodynamics with Laboratory Experience, Systems and Controls, Energy Systems

Professional:

Licensed Professional Engineer (FL license # 99312)
Full Accreditation as a Traffic Accident Reconstructionist by the Accreditation Commission for Traffic Accident Reconstruction. (ACTAR # 3064)
Licensed sUAS Aircraft Pilot

Cummings Scientific, LLC, Tallahassee, FL; Engineering, Accident Reconstruction;
2015 - Present

- Reconstruction of vehicular accidents; dynamic and kinematic analysis; computer analysis; momentum exchange; vehicle crush energy calculations; visibility analysis; automobile, truck, motorcycle, scooter accidents.
- Three dimensional scene reconstruction
- Downloading and interpretation of vehicle Crash Data Recorder data.
- Mathematical modeling of vehicular accidents.
- Computer modeling of vehicular accidents and occupant kinematics.

Midas, Tallahassee, FL; Automotive Diagnostics, Technician;
2005 - 2012

- Mechanical diagnosis and repair of passenger vehicles and medium duty trucks.
- Interfaced with vehicle electronic systems to assist in diagnosing vehicle faults.
- ASE certified in underbody repair and automotive heating and cooling systems.
- Custom fabrication of automotive exhaust systems.

Sensory Research Institute, Tallahassee, FL; Laboratory work, Human studies;
2002-2004

- Custom fabrication of testing enclosure and apparatus.
- Screening of potential test candidates; familiarizing test subjects with test and procedures; monitoring of test subjects during study; administered post test survey and follow up with test subjects.
- Collection, organization, filtering, and analysis of test data.

Professional Organizations:

- **ASME** – American Society of Mechanical Engineers
- **SAE** – Society of Automotive Engineers

Conference and Course Attendance:

- **Crash Data Retrieval**, Technician Course, IPTM, November 2015
- **59th Stapp Car Crash Conference**, New Orleans, LA. November 9-11, 2015
- **11th CDR Summit, Houston**, TX, January 25-27, 2016
- **ARC-CSI Car Crash Conference**, Las Vegas, NV. September 18-21, 2017
- **Traffic Crash Investigation 1**, Online course, November, 2018
- **PC-Crash Florida Workshop**, Orlando, FL. January 30 - February 1, 2019
- **Drone Mapping: Ground and Aerial Measurements**, Online course, February 5, 2019
- **Event Data Recorder Use in Traffic Crash Reconstruction**, Online course, December 30, 2019
- **Human Factors and Nighttime Visibility**, Online course, October 23, 2020
- **PC-Crash Webinar Series 1 - Tips and Tricks**, Online workshop, February 25, 2021
- **FARO Crash Reconstruction Series**, Online course, March 8, 2021
- **PC-Crash Webinar Series 2 - Using EDR Data**, Online workshop, April 22, 2021
- **PC-Crash Webinar Series 3 - Using Video Data**, Online workshop, June 3, 2021
- **Recon - 3d Training Course**, Online course, June 6, 2023
- **PC-Crash Video Analysis Webinar**, Online workshop, September 17, 2024

Publications:

- Cummings, J. R., Fletcher, H. J., Biller, B. A., Scanlan, S., Lamb, R., & Russo, M. D. (2016). Estimates of Motorcycle Speed Made By Eyewitnesses Under Ideal Experimental Conditions. *Accident Reconstruction Journal*, 12–17.