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ASAAD I. SHAIKH, M.S.
SENIOR CONSULTANT

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Mr. Asaad Shaikh is a Senior Consultant with Engineering Systems, Inc (ESi) in the Lincoln Park, New Jersey office. Mr. Shaikh's background includes mechanical engineering with expertise in accident investigation and reconstruction. He specializes in automotive accident investigation and reconstruction of recreational, passenger and commercial vehicles including extensive experience with downloading and analyzing Event Data Recorder (EDR) data for light and heavy vehicles, three-dimensional laser scanning, and drone photography/mapping. He is proficient in capturing meaningful evidence from accident sites and involved vehicles to create demonstratives used to visualize the sequence of an accident.

Prior to joining ESi, Mr. Shaikh worked in forensic consulting and served as a Research Assistant and Senior Researcher in the Advanced Structures and Materials Laboratories at Rutgers University. His graduate studies focused on material characterization and mechanical testing of reinforced composite and polymer materials, with a specialty in nanoindentation.

Areas of Specialization

Automotive Accident Investigation & Reconstruction
FAA Certified sUAS Pilot
Imaging & Analyzing Event Data Recorders for Light & Heavy Vehicles
Material Characterization
Mechanical Testing
Mechanical Engineering
Photogrammetry
Three-Dimensional Laser Scanning
Three-Dimensional Modeling

Education

M.S., Mechanical and Aerospace Engineering, Rutgers University
B.S., Mechanical Engineering, Aerospace Engineering Concentration, Rutgers University

Licenses & Certifications

FAA sUAS Remote Pilot

Professional Affiliations/Honors

American Society of Mechanical Engineers (ASME)
    Member
Society of Automotive Engineers (SAE)
    Member
James J. Slade Scholar, Rutgers University

Positions Held

Engineering Systems Inc., Lincoln Park, NJ
Senior Consultant, 2025 – present
Exponent Inc., Philadelphia, Pennsylvania
Associate, 2023-2025
Advanced Structures and Materials Laboratories, Rutgers University, Piscataway, New Jersey
Senior Researcher, 2020-2023
Research Assistant, 2018-2020

Continued Education

Accessing and Interpreting Heavy Vehicle Event Data Recorders
SAE International, Fontana, CA, 2024
SAE Accident Reconstruction Certificate Program, Required Course

The EDR User's Summit
Collision Magazine, Houston, TX, 2024

Bosch© CDR Tool Data Analyst Course
Collision Safety Institute, Dayton, OH, 2023

Bosch© CDR Tool Technician Training by IPTM (Online)
Institute of Police Technology and Management, 2023

Publications/Presentations

"Nanoindent Characterization And DSC Evaluation Of Elongated Shear Flow Exfoliated Poly-Ether-Ether-Ketone (PEEK) And Polysulfone (PSU) Blends", M.Agarwal, **A. Shaikh**, S.S. Ramkumar, J. Lynch, A.A. Pelegri. SAMPE 2023, doi:10.33599/nasampe/s.23.0200

"Morphology And Mechanical Properties of Poly-Ether-Ether-Ketone (PEEK) and Polysulfone (PSU) Blends" M. Agarwal, S.S. Ramkumar, **A.Shaikh**, J. Lynch, A.A. Pelegri, SAMPE 2023, doi:10.33599/nasampe/s.23.0204

"Enhanced Mechanical Energy Absorption via Localized Viscoplasticity of Nano-Cellular Polymer Coating Under Supersonic Impact Loading" Z. Ren, R. Green-Warren, N. McAllister, A. Kim, **A. Shaikh**, A.A. Pelegri, J. Singer, J. Lee. Giant, vol. 15, 20 July 2023, pp. 100180-100180, https://doi.org/10.1016/j.giant.2023.100180

"Determining the Self-Limiting Electrospray Deposition Compositional Limits for Mechanically Tunable Polymer Composites" R. Green-Warren, L. Bontoux, N. McAllister, D. Kovacevich**, A. Shaikh**, C. Kuznetsova, M. Tenorio, L. Lei, A. A. Pelegri, and J. Singer. ACS Applied Polymer Materials 2022 4 (5), 3511-3519, doi:10.1021/acsapm.2c00106

"Mechanical Tunability of Hierarchical Porous Polymer Thin Films" R. Green-Warren, A. Ren, N. McAllister, L. Bontoux, **A. Shaikh**, J. Lee, A.A. Pelegri, J. Singer, American Physical Society March Meeting 2022