Asaad I. Shaikh

M.S.

Senior Consultant

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.

Education

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

Licenses & Certifications

- FAA sUAS Remote Pilot
- Certified Faro Focus Scanner User

Positions Held

Engineering Systems Inc., Lincoln Park, New Jersey

- Senior Consultant, 2025 – present

Exponent Inc., Philadelphia, Pennsylvania

- Associate, 2023-2025

Contact Information

aishaikh@engsys.com

732-309-3763

ESi Lincoln Park

6 Frassetto Way, Suite E
Lincoln Park, NJ 07035

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

Advanced Structures and Materials Laboratories, Rutgers University, Piscataway, New Jersey

- Senior Researcher, 2020-2023
- Research Assistant, 2018-2020

Continuing Education

- **Hyundai-Kia & Tesla EDR Tools Technician**
  University of North Florida Institute for Police Technology and Management, Aurora, IL, 2025
- **Passenger Restraint Safety Systems**
  University of North Florida Institute for Police Technology and Management, Aurora, IL, 2025
- **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**
  University of North Florida Institute of Police Technology and Management, 2023

Professional Affiliations/Honors

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

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