



Curriculum Vitae

Alaa B. Osman

Forensic Consultant



Professional Profile

Ms. Osman is a Forensic Consultant with education, training and experience in the fields of Mechanical Engineering, Biomedical Engineering, Forensic Engineering and Accident Reconstruction.

Ms. Osman graduated with Departmental Distinction from Duke University with a Bachelor of Science in Biomedical and Mechanical Engineering, where her coursework and scientific research focused on mechanical and biomedical systems design, computer simulation modeling and mathematical computational analysis.

Ms. Osman is trained to utilize cutting edge technology to capture evidence and preserve forensic data using various scientific tools, such as FARO 3D laser scanning, Total Station laser mapping, Lidar 3D scanning, unmanned aerial vehicle (UAV) mapping and imagery, forensic photography and photogrammetry, traffic signal data acquisition and passenger and commercial vehicle black box data imaging.

Ms. Osman's professional practice includes the use of reliable and advanced engineering and scientific principles and methodologies to process forensic evidence and reverse-engineer dynamics-based collision events for corporate, insurance and legal clients.

Professional Development

Lightpoint Learning

- Advanced Photogrammetry for Collision Reconstruction, 2024

Virtual CRASH Accident Reconstruction

- Essential + Animations, 2024

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Orlando Office

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St. Cloud, FL 34771

Education

Duke University

Bachelor of Science in Biomedical and
Mechanical Engineering

Durham, NC

Work Experience

Focus Forensics, LLC

Consultant: 2024-Present

Pratt School of Engineering

Engineering Teaching Assistant: 2022

Student Lab Volunteer: 2021-2022

Research Fellow: 2023-2024



Publications

Covert, L. T., Patel, H., Osman, A., Duncan, L., Dvergsten, J., & Truskey, G. A. (2024). Effect of type I interferon on engineered pediatric skeletal muscle: a promising model for juvenile dermatomyositis. *Rheumatology (Oxford, England)*, 63(1), 209–217.

Covert LT, Osman A, Truskey GA. Interferon- β -Induced Injury During Pediatric Muscle Differentiation: Insight Into Juvenile Dermatomyositis Pathogenesis. *ACR Open Rheumatol*. 2024 Oct 22. doi: 10.1002/acr2.11760. Epub ahead of print. PMID: 39439064.