



Moamel Kassem, BSME

Moamel Kassem graduated from the University of Texas at San Antonio and has a strong foundation in advanced engineering principles, tools, and practices. His expertise includes materials science, mechanical design, graphics, statistics, and quality control. He is proficient with current versions of MATLAB, SolidWorks, and Abaqus.

Mr. Kassem has performed vehicle and site inspections, drone-based aerial photography, and imaging of passenger-vehicle Event Data Recorders (EDRs). He prepares professional reports and provides expert-witness testimony. He is fluent in Arabic and English.

EDUCATION AND LICENSING

University of Texas, San Antonio	
BS Mechanical Engineering	2026

CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

American Society of Mechanical Engineers	
ASME	No. 22028855283

Society of Automotive Engineers	
SAE	No. 6163592721

SPECIALIZED COURSEWORK AND CONFERENCES

- *How to Use the Bosch CDR Tool*, Crash Academy – Online, August 2026.

CAREER ENGAGEMENTS

08/26 – Present

Crash Engineer, L.L.C., San Antonio, Texas

Engineer I. Provide investigation and analysis of passenger vehicle, heavy truck, motorcycle, bicycle and pedestrian collisions. Conduct vehicle and site inspections, digital mapping of collision sites and imaging of passenger vehicle Event Data Recorders (EDR). Utilize mathematical models and prepare computer simulations and animations to model and visualize vehicular collisions. Prepare professional reports and present expert witness testimony.

RESEARCH PROJECTS

University of Texas, San Antonio

Advanced Materials and Mechanical Systems (AMMS) Lab, Texas Research Assistant: Assisted with computational simulations and theoretical analysis to study nonlinear behavior and failure mechanisms in engineered materials.

Terracon Consultants, Inc., San Antonio

Conducted pre-construction materials testing for highway and infrastructure projects to verify compliance with project specifications and DOT standards.