

## **MARK JEUDE**

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**Phone:** +1 (256) 270-3250

### **Expert Witness – Explosives Safety | Hazard Classification | UXO | Energetics**

Former U.S. Army National Guard Explosive Ordnance Disposal (EOD) Officer and current System Safety Engineer specializing in energetic materials, insensitive munitions, and explosives hazard classification. Over a decade of combined military and defense-sector experience in explosives risk analysis, post-blast interpretation, and system safety under DoD, NATO, and UN frameworks.

Available to assist in civil, federal, and criminal defense cases involving munitions, IEDs, UXO, and explosive behavior, as well as ATF-related determinations and hazard-classification disputes.

### **Core Expertise**

- Explosives Safety & Energetic Materials Characterization
- System Safety Engineering & Risk Analysis (MIL-STD 882 E/F Frameworks)
- Hazard Classification & Destructive-Device Determination
- Propellant & Explosive Performance Modeling and Failure Analysis
- UXO & EOD Operations and Post-Blast Assessment
- Accident Investigations & Root-Cause Analysis
- Range & Facility Safety Audits (Blast Effects, Fragmentation Analysis)
- Expert Witness and Technical Consulting in Energetics and Weapon System Safety

### **Professional Experience**

#### **System Safety Engineer – Lockheed Martin Corporation 2021 – Present | Huntsville (AL)**

- Provide system safety engineering and energetic hazard analysis for missile and propulsion systems.
- Lead energetic hazard assessments, cook-off analysis, ignition risk evaluations, and failure-mode investigations.
- Author hazard-classification and energetic safety documentation supporting compliance with DoD, OSHA, and NAVSEA frameworks.
- Interface with government safety boards on MIL-STD-1901A and MIL-STD-1316F implementation.

#### **Explosive Ordnance Disposal Officer – U.S. Army National Guard (CPT) 2014 – 2026**

- Commanded an Explosive Ordnance Disposal (EOD) Company overseeing personnel, operational readiness, and accountability of equipment valued at approximately \$10M.

- Planned and supervised live-fire demolition operations involving high explosives, military munitions, and energetic materials under DoD explosives safety standards.
- Conducted energetic-safety training and range inspections for Army and civil agencies.
- Developed a National Guard EOD deployment training and evaluation program incorporating readiness assessments, performance criteria, and risk-based validation measures.

### **Energetics & Hazard Analysis Consultant – Achilles Tactical Solutions LLC 2025 – Present**

- Provide technical risk assessments, forensic analysis, and expert opinions in matters involving energetic materials, munitions, and explosive systems.
- Maintain capabilities to perform blast-effect modeling, hazard classification reviews, and range safety audits under DoD and ATF standards.
- Develop methodologies for data-driven explosives classification and propellant safety evaluation.
- Deliver training modules and technical briefings on energetic hazards and resilience planning for government and private-sector clients.

### **Education**

- B.S., Information Systems Management– Auburn University, December 2017
- Associate of Science, Military Leadership and Logistics – Marion Military Institute, June 2015
- U.S. Army Logistics Captains Career Course – Fort Gregg-Adams, VA, March 2022
- U.S. Naval School Explosive Ordnance Disposal (EOD) – Eglin Air Force Base, FL, October 2019

### **Certifications & Specialized Courses**

- **EOD Qualification – Senior Badge and Team Leader Certified**  
Qualified to lead EOD teams in field operations, hazard mitigation, and ordnance analysis.
- **Lean Six Sigma Green Belt**  
Trained in process improvement, data analytics, and efficiency methodologies.
- **Anti-Terrorism Officer Basic Course (Course: 9E-F5/950-F4)**  
Qualified in facility threat assessment, vulnerability analysis, and AT plan development.
- **OSHA 40-Hour HAZWOPER Certification**  
Certified in hazardous waste operations and emergency response procedures.

- **Advanced Diagnostic Techniques I (Explosives Diagnostics)**  
Interagency-certified course in radiological and nuclear threat awareness, detection theory, and crisis communications under the National Response Framework (NRF).