QUANTUM ETCH SOLUTIONS™

CAPABILITY STATEMENT

Forensic Verification & Precision Marking · Huntsville, Alabama

Quantum Etch Solutions (QES) delivers DFARS 252.211-7003–compliant Item Unique Identification (IUID) verification and Serialized Item Management (SIM) support for aerospace & defense subcontractors — including UII marking and validation, mobile on-site forensic verification, zero-vaporization laser annealing, and multi-year immutable compliance archiving. Built on more than 20 years of aerospace systems engineering experience.

CORE COMPETENCIES

- UII Marking, Validation & DFARS 252.211-7003 Compliance Support
- Mobile On-Site Verification (VaaS) — MIL-STD-130 & AS9132 code grading
- MOPA Fiber Laser Annealing & Direct Part Marking (DPM)
- Multi-Year Immutable Compliance Vaulting — Serialized Item Management (SIM)
- Emergency IUID Remediation — 24–72hr turnaround
- Pre-Audit Infrastructure & Marker Diagnostics
- Zero-Thermal-Stress UV Precision Marking
- Multi-Substrate Optical Grading — ECC 200 Data Matrix (ISO/IEC 15415 & 29158)

DIFFERENTIATORS

- 20+ years aerospace systems engineering leadership
- On-site mobile service — no shipping delays for verification
- Cryptographically secured, air-gapped multi-year record vaulting
- Direct alignment to MIL-STD-130, AS9132, NASA-STD-6002
- Based in Huntsville, AL — Redstone Arsenal / North Alabama corridor
- Small, specialized team of consultants & technical staff for responsive service
- OMRON LVS-9585-HD — government-recognized Automatic Identification Technology (AIT) platform
- Full DCMA inspection support with documented Verification & Validation (V&V) reporting

INDUSTRIES SERVED

Missile & Strategic Weapon Systems · Military Aviation & Flight Hardware · Spaceflight Hardware & Optics · Tactical Electronics & C4ISR

ABOUT QES

Quantum Etch Solutions is owned and operated by T. Dean Nunn, an aerospace systems engineer with more than two decades of high-consequence industry and systems engineering experience, supported by a small team of specialized consultants and part-time technical staff. QES operates as a dedicated compliance partner for defense and aerospace subcontracts — engineered to insulate prime contractors from quality non-conformance penalties while ensuring full tracking data integrity within a hardened, secure framework.

COMPANY DATA

Business Classification 100% U.S. Minority-Owned & Operated Small Disadvantaged Business (SDB)
NAICS 541330, 332710, 332812, 336413, 339112, 541380
CAGE 1AYX6
UEI VMWDNN1QJQN6
CMMC Status Level 2 (Self-Assessment) — NIST SP 800-171 Score: 109/110
Location Huntsville, Alabama

POINT OF CONTACT

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QES is not affiliated with, endorsed by, or a representative of the Department of the Army or the Department of War. All services are performed in accordance with applicable industry and federal compliance standards.