CLARKE / ADDITIVE

ENGINEERING-LED PRECISION ADDITIVE MANUFACTURING

VETERAN-OWNED

PRINCIPAL
Brian Clarke, Owner & Engineer

EMAIL
Brian@Clarkeadditive.com

PHONE
704-307-2206

WEB
clarkeadditive.com

CAPABILITY STATEMENT

Precision Additive Manufacturing for Defense, Aerospace & Industrial Customers

CORE COMPETENCIES

- Simple fixtures and holders for manufacturing & bench work
- Functional prototypes & short production runs (1–500 units)
- Reverse engineering & replacement parts for legacy equipment
- DFAM (Design for Additive Manufacturing) consultation
- Engineering thermoplastic qualification & process validation

DIFFERENTIATORS

- 17 years mechanical engineering supporting U.S. DoD systems integration
- Engineering-led: every quote reviewed by the principal engineer
- No minimum order quantities — one part or five hundred
- Documentation discipline appropriate to defense and aerospace work
- Same-day local delivery in the Charlotte metro

EQUIPMENT

Industrial FDM — Large Format
350 × 320 × 325 mm build envelope. Heated chamber (65°C), dual-extrusion, 350°C high-flow hotend. Validated for PA-CF and PET-CF.

Industrial FDM — Production
256 × 256 × 256 mm build envelope. Fully enclosed, 300°C hotend. Full engineering thermoplastic range.

CAD & Reverse Engineering
Onshape. Full design and reverse-engineering capability.

MATERIALS QUALIFIED

PA-CF · PET-CF · PC · ABS · ASA · PETG · PA6 · PA12 · TPU

PRINCIPAL ENGINEER EXPERIENCE

17 Years, U.S. Defense Industry Employer

Mechanical engineering on Department of Defense development and production programs from concept through fielding. Engineering scope includes ruggedized hardware design and systems integration; environmental qualification to MIL-STD-810 (shock, vibration, thermal, EMI); configuration management and drawing release to DoD standards; cross-discipline integration with electrical, software, and systems engineering teams; and direct interface with government program offices through PDR, CDR, and technical interchange.

This experience informs how Clarke Additive supports defense and aerospace customers — we understand what the customer expects from a supplier because we've been the customer.

References available upon request under appropriate disclosure agreements.

CERTIFICATIONS & ROADMAP

CURRENT

Veteran-Owned Small Business (self-certified)

SDVOSB Application (in progress, SBA)

24-MONTH ROADMAP

Yr 1 ITAR Registration

Yr 2 ISO 9001:2015

Yr 3 AS9100D

NAICS CODES
326199 · 541330 · 332710 · 333248

EIN
41-3785352

CAGE / UEI
Pending SAM.gov registration