

PRINCIPAL

Brian Clarke, Owner & Engineer

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CAPABILITY STATEMENT

Precision Additive Manufacturing & Engineering Services

CORE COMPETENCIES

- Electronics enclosures and ruggedized housings
- 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 experience on complex hardware programs
- Engineering-led: every quote reviewed by the principal engineer
- No minimum order quantities — one part or five hundred
- NDA-friendly — your IP and product roadmap stay protected
- Same-day local delivery in the Charlotte metro; nationwide shipping

PRINCIPAL ENGINEER EXPERIENCE

17 Years — Senior Mechanical Engineer, Complex Hardware Development

Mechanical engineering on hardware programs from concept through production. Experience includes ruggedized product design and systems integration; environmental testing and validation (shock, vibration, thermal, EMC); disciplined configuration management and controlled drawing release; cross-functional collaboration with electrical, firmware, and systems engineering teams; and direct customer interface through formal design reviews and technical exchanges.

This experience informs how Clarke Additive supports every customer — we understand what a serious supplier looks like because we've been the customer.

References and case examples available upon request under NDA.

CERTIFICATIONS & ROADMAP

CURRENT

Veteran-Owned Small Business (self-certified)
Onshape Professional (CAD & PDM)

24-MONTH ROADMAP

- Yr 1** ISO 9001:2015 quality management system
- Yr 2** Expanded production capacity & material library
- Yr 3** In-house FEA & design optimization services

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

QUOTE TURNAROUND

One business day on most projects

SERVICE AREA

Charlotte metro · Nationwide shipping

NAICS CODES

326199 · 541330 · 332710 · 333248