



CAPABILITY STATEMENT

Walters Consulting LLC

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Walters Consulting LLC provides applied mathematics, machine learning, scientific software, and cryptography consulting for government, defense, and research-driven organizations, with hands-on delivery from a PhD technical principal.

CORE COMPETENCIES

- Machine learning, data science, and NLP
- Applied mathematics, modeling, and optimization
- Algorithm design and research prototyping
- Scientific software in Python, Rust, C, and MATLAB
- Cryptography and post-quantum cryptography
- Decision support and gap-analysis tools
- Simulation, numerical methods, and complex-system QA
- Technical feasibility analysis and rapid MVP development

DIFFERENTIATORS

- PhD mathematician with 15+ years of programming and technical problem-solving experience
- Published author in *Annals of Statistics* and *Advances in Mathematics*
- Direct expertise in post-quantum cryptography and NIST FIPS 203 (ML-KEM)
- Built a national-security prototype that matched military capability gaps to available solutions
- Principal-led delivery from technical discovery through prototype and deployment

PAST PERFORMANCE

National Security Hackathon Prototype (2026)

Designed and built a working proof-of-concept web application that matches defense capability gaps with government and commercial solutions for mission planning and acquisition discovery.

Zaiku Group – Cryptography Fellow (2024–2025)

Developed Rust implementations of post-quantum cryptography primitives aligned with NIST FIPS 203, including Ring-LWE, Module-LWE, NTT, and ML-KEM components.

Power Auctions – QA Engineer (2020–2021)

Built simulation and QA tools supporting FCC Auction 107 (\$80B closing value) and a secondary auction (\$300M), uncovering optimization failures and numerical instability in large-scale auction systems.

COMPANY DATA

Legal Name: Walters Consulting LLC
Business Type: Single-Member LLC
Founded: 2022
Service Area: Virginia and Washington, D.C.
UEI: TQHNRN4G84D6
CAGE Code: 1A7X2
DUNS: 11-179-7406
SAM Registration: Active

NAICS CODES

541511 Custom Computer Programming Services (Primary)
541512 Computer Systems Design Services
518210 Data Processing, Hosting, and Related Services
541519 Other Computer Related Services
541611 Administrative Management and General Management Consulting
541690 Other Scientific and Technical Consulting Services