

HolonomiX

We engineer mission software and computational workloads to perform closer to the mission, especially when bandwidth, connectivity, and compute are constrained.

COMPANY OVERVIEW

HolonomiX develops software for structural data, scientific computation, cryptographic lifecycle management, and evidence-based decision support. The company engineers data representation, operator design, execution paths, and verification workflows to improve runtime, memory use, data movement, and decision traceability. Engagements can cover an existing product, a component integration, a computational operation, or a custom application, with defined scope, deliverables, and acceptance criteria.

CORE CAPABILITIES



Computational Engineering and Scientific Software

Numerical methods, GPU execution, operator design, thermal-fluid simulation, multidisciplinary analysis, performance engineering, and workload-specific execution design.



Data Platforms and Structural Retrieval

Representation-aware data infrastructure, indexing, retrieval, persistence, update handling, and integration for AI and analytical systems.



Evidence and Cryptographic Lifecycle Systems

Signed receipts, portable evidence bundles, cryptographic discovery, migration planning, key-custody workflows, and verification tooling.



Mission Decision Support and Custom Applications

Deterministic data fusion, evidence-backed answers, private appliances, scoped pilots, APIs, interfaces, and custom-engineered applications.

WHAT DIFFERENTIATES HOLONOMIX



Edge-ready workload engineering for constrained environments

We re-engineer how software stores, moves, and computes data so demanding workloads can run with less memory, less data movement, and better performance in low-bandwidth, intermittently connected, or compute-constrained environments.



Integrated technical delivery

Work spans mathematical operators, CPU and GPU implementation, data services, APIs, deployment, and acceptance evidence — aligned to your mission objectives.



Evidence-driven execution

Engagements define scope, reference conditions, acceptance criteria, and retained evidence from the start, delivering reproducible, traceable results.

SELECTED TECHNICAL EVIDENCE



Reduce runtime and memory burden

Optimized data representation and execution paths significantly reduce memory use and runtime, enabling demanding workloads to run on resource-constrained platforms.



Bring larger analysis within practical compute limits

Advanced data structures and representation-aware methods allow larger, higher-fidelity analyses to run within practical compute, memory, and storage budgets.



Deliver auditable, evidence-backed outputs

Built-in verification workflows produce signed, traceable outputs and complete audit records, supporting regulatory, mission, and assurance requirements.

ENGAGEMENT MODEL

HolonomiX can support agencies, laboratories, and prime contractors through scoped engineering services, component integration, private appliances, product pilots, and custom software delivery. The initial engagement is typically a defined technical work package with measurable outputs, documented assumptions, and clear acceptance evidence.

CAPABILITY STATEMENT

ENGINEER.
REPRESENT.
ENABLE DECISIONS.
ADVANCE MISSIONS.

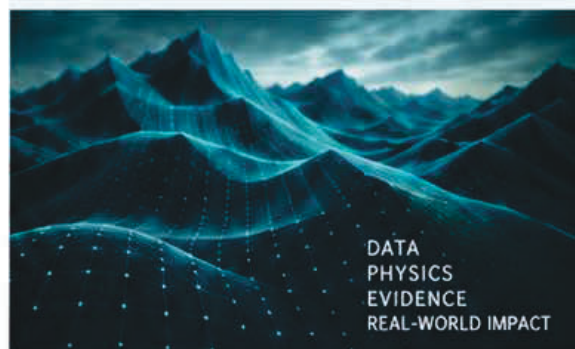
REAL DATA.
HIGHER FIDELITY.
MISSION IMPACT.

TIGANTIC HOLDINGS LLC

Raleigh, North Carolina
SBA Certified SDVOSB / VOSB

UEI: L5ELJUCUEYG3 | CAGE: 20T15

Founder & CEO: Bradly B. Adams



PRODUCTS AND DELIVERY MODELS

Offer	Description
HX-Provenance	Signed receipts and portable evidence verification
HX-SDP	Structural data, indexing, retrieval, and inference support
HX-PQC	Cryptographic discovery, migration, protection, and assurance
HX-AIFactoryTwin	Thermal-fluid scenario evaluation
HX-MDAO-TP	Multidisciplinary analysis and optimization
HX-AEIR	Agent evaluation incident reconstruction
HX-Fusion	Deterministic data fusion and mission answers

REPRESENTATIVE APPLICATIONS

Defense and government R&D
AI infrastructure and analytical systems
Aerospace and engineering computation
Energy and critical infrastructure
Secure software and assurance workflows

TRUSTED SOFTWARE
FOR COMPLEX PROBLEMS
IN SERVICE OF IMPORTANT MISSIONS.