

SAY QUANTUM, LLC

Ambient Quantum Sensing · Self-Powered
Autonomous Instrumentation

CAPABILITY STATEMENT
July 2026

WHAT WE DO

We build a new class of sensing device: instruments that harvest their own energy from ambient motion, condition their own signals through circuit geometry, and permanently record events in non-volatile memory. No batteries, no wiring, no maintenance, at ambient temperature. Our first product targets pharmaceutical cold-chain monitoring, a \$35 billion annual spoilage problem that no existing battery-free sensor records digitally.

CORE COMPETENCIES

- Self-powered sensing architecture: energy harvesting, passive signal conditioning, and non-volatile memory unified in one closed-loop circuit
- Computational device physics: density functional theory, non-equilibrium Green's function transport analysis, and full-circuit digital-twin simulation on in-house high-performance computing
- Quantum-enabled sensing research: engineered spin-selective channels at room temperature; pathway to ambient magnetometry
- Custom AI-assisted simulation: proprietary models and data maintained on company infrastructure

DIFFERENTIATORS

- **First-of-category:** no existing technology combines battery-free operation with permanent digital event recording
- **Protected:** two U.S. provisional patents (April and July 2026), 32 claims covering the architecture from single sensors through scaled arrays
- **Independent and fast:** founder-controlled small business; no parent institution; full IP ownership; concept to dual-patent, computationally validated platform in 90 days
- **Aligned:** directly responsive to national quantum sensing priorities (Executive Order 14413, June 2026)

CURRENT STATUS

- Computational validation complete: nine digital-twin simulation versions; all design gates passed
- Physical bench prototype in development; laboratory validation program defined
- Federal research funding applications in review (NSF)
- Regional NSF I-Corps customer discovery program: application submitted (Fall 2026 cohort)

COMPANY DATA

LEGAL NAME

Say Quantum, LLC

NAICS (PRIMARY)

541715 — R&D in Physical, Engineering & Life Sciences

ENTITY

Limited Liability Company

BUSINESS TYPE

Small Business · Woman-Owned

SAM.GOV

Active

FOUNDED

2023

LOCATION

Miami, Florida

IP POSITION

2 U.S. provisional patents

CONTACT

POINT OF CONTACT

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