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DOMAIN SPECIFICATION

RESONIX LABS (USA), INC.

UEI	CAGE	SAM.GOV	ENTITY	HEADQUARTERS	OWNERSHIP
J8PVQBNB34A5	25C44	Active	Delaware C-corporation	Paradise Valley, AZ	U.S. majority owned

PrecisionEdge · engineer eval

Engineer pilot handout · 20 October 2026

Job: **Semantic compress/decompress** tactical **messages** on bandwidth-limited links.

Compare to: **gzip / zstd / LZ4** on the same message bytes.

Pilot KPIs: Bytes on wire; decode latency; **field semantics** (track ID, cue priority) signed off by your SMEs.

30-day pilot: Offline round-trip on a **production message sample** from your link program.

Pass: Meaningful utilization gain vs gzip **without** breaking decision-critical fields.

Lab evidence (scope): Synthetic Link-16-class fixtures **~1.7×** vs gzip; measure on **your** schema before link claims.

Do not compare to: SZ3/ZFP on simulation floating-point volumes (different payload).

Integration: Encoder/decoder at link boundary; not encryption or C2.

NAICS

541715 PRIMARY

513210 · 541511 · 541512

PSC

AJ12

DA01

R425

INQUIRIES

Partnering, teaming and technical questions

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