RESONIX

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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

PrecisionSWaP · engineer eval

Engineer pilot handout · 20 October 2026

Job: Lossy compression of **float sensor streams** on edge recorders (flash/RAM limited).

Compare to: **LZ4/zstd** on bytes; **ZFP-class** codecs on float arrays where you already use them.

Pilot KPIs: Compression ratio vs raw replay; RMSE vs uncompressed at agreed ε.

30-day pilot: On **your board** with **your sensor schema**.

Pass: Ratio and footprint meet embed budget with physics-safe ε.

Lab evidence (scope): **~13×** vs generic LZ on float streams in lab; qualify on target hardware.

Do not compare to: Tactical message gzip (PrecisionEdge lane).

NAICS

541715 PRIMARY

513210 · 541511 · 541512

PSC

AJ12

DA01

R425

INQUIRIES

Partnering, teaming and technical questions

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