RESONIX

The reliability layer beneath intelligence.™

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

SolvSRK · engineer eval

Engineer pilot handout · 20 October 2026

Job: Integrate **stiff, noisy** ODE/IVP models (plant, GN&C between frames, coupled sim) when **BDF/RK** pipelines stall.

Compare to: SciPy **BDF/Radau/RK45**, Simulink, **SUNDIALS** on **your RHS**.

Pilot KPIs: **Completion rate** under noise; error and wall time vs your shipped integrator.

30-day pilot: Same dynamics, tolerances, and noise coupling you use in HIL; optional routing scout first.

Pass: Survival and error meet your program gates; unsupported problem classes documented.

Lab evidence (scope): Noisy stiff reference set: **100%** completion where standard BDF **fails** at moderate noise; large multi-problem corpus shows wins on **~66%** of cells vs scipy/SUNDIALS-class arms (443-problem flat corpus, Sep 2026); **not** fastest on every clean problem.

Do not compare to: Autopilot, C2, or “fastest integrator everywhere.”

Integration: SciPy-shaped IVP API; you own RHS and tolerances.

NAICS

541715 PRIMARY
513210 · 541511 · 541512

PSC

AJ12
DA01
R425

INQUIRIES

Partnering, teaming and technical questions

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