

Soundside Design

Capability statement

Software R&D and prototype integration for defense and dual-use applications. Work spans acoustic sensing, computer vision, and the systems that retain and evaluate their results.

Capabilities and deliverables

Sensing and inference. Acoustic event detection, on-device model integration, image registration, and geometric measurement. Deliverables: Instrumented prototype, runtime integration, and profiling report.

Technical evaluation. Reproducible comparisons, reviewed datasets, latency measurement, and failure analysis. Deliverables: Test plan, evaluation harness, and report with operating limits.

Application and system integration. Device and web applications, review interfaces, asynchronous synchronization, and data provenance. Deliverables: Working implementation, interface documentation, and repeatable validation.

Commercial implementation: WhirledPiece

Version 1.0 released September 9, 2026. Available now on the App Store. A signal-processing frontend locates the acoustic onset. A separate on-device classifier accepts, flags, or rejects candidates while preserving the onset timestamp. The image path maps a target photograph into physical coordinates before scoring. Device and web interfaces retain corrections and model provenance.

Published telemetry, August 15, 2026: Onset-localization processing: p50 1.37 ms / p95 2.14 ms; Classifier pass, five windows: p50 65.9 ms / p95 111.8 ms. Published production telemetry snapshot from an inventory of 495 sessions, concentrated in one shooter's devices and ranges. These are stage execution times, not timestamp-error or detection-accuracy estimates. Results do not establish performance in other environments.

[Technical method and measurement context](#) [App Store listing](#)

Engagement and deployment

Feasibility studies, bounded prototypes, evaluation work, and software integration. Deliverables, execution environment, data handling, and acceptance criteria are defined per engagement.

WhirledPiece performs acoustic inference on the device and synchronizes saved evidence to cloud services. Soundside.ai is a separate hosted media-processing service that may call external model providers. Customer project data flows and external services are specified per engagement.

Company and contact

Soundside Design LLC · Fairfield, Connecticut

Registered in SAM.gov. UEL and CAGE available on request.

NAICS alignment: 541715 (Physical and engineering R&D); 541511 (Custom computer programming); 513210 (Software publishing). Registration details available on request.

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