

Battery AI

AI Engineer for Battery

One connected solution for engineering, operations, quality, testing and field diagnostics.



Illustrative product visualization. Analytics shown with demo data.

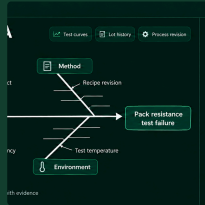
What your team can do with Battery AI



01

NPI change control

Connect supplier files, revisions and validation evidence. Review impacts before production.



02

Quality root cause analysis

Generate evidence-linked fishbone and 8D drafts. Test hypotheses and control corrective actions.



03

Testing and failure analysis

Compare test curves and failure signatures. Investigate variation under matched conditions.



04

Field diagnostics

Connect symptoms, telemetry and asset history. Prioritize the next diagnostic check.

One continuous evidence loop

Engineering, Operations, Quality, Analytics and Field workspaces. Shared battery knowledge, evidence and reviewed actions.

Bring a battery question.
Explore the evidence with us.

industrialmind.ai →

From a battery problem to a controlled improvement.

01 / USE CASE

NPI change control

What changed, and what does it affect?

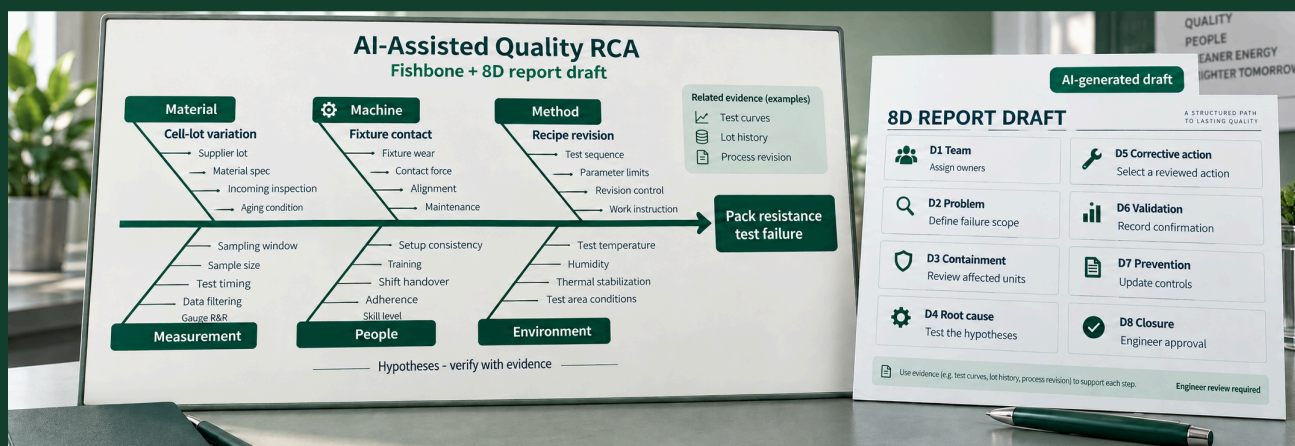
Compare revisions and supplier evidence. Link changes to requirements, tests and owners. Review readiness and prepare a controlled introduction package.

Output: Revision impact + controlled handover

02 / QUALITY ROOT CAUSE ANALYSIS · CASE FOCUS

Quality root cause analysis. A failed test. A traceable response.

Pack resistance rejects rise after a process or test revision. The team needs to distinguish product, process and measurement causes.



Detect & scope

Define the affected population. Link test curves, lots, fixtures, revisions and timestamps.

Analyze & draft

AI drafts a fishbone with competing causes and an evidence-linked 8D report. Prioritize the check that separates the hypotheses.

Validate & control

Confirm the cause under controlled conditions. Approve corrective action, update controls and verify effectiveness.

Illustrative AI-generated drafts. Engineers review evidence and approve conclusions.

03 / USE CASE

Testing and failure analysis

Which failure signatures need investigation?

Align cycling, resistance and thermal data. Compare failed and passing populations under matched conditions; check measurement context before validating an explanation.

Output: Curve comparison + failure analysis

04 / USE CASE

Field diagnostics

What explains the symptom in service?

Connect available fault events, operating conditions and asset history. Compare relevant cases, identify missing evidence and prepare a prioritized diagnostic check.

Output: Diagnostic timeline + reviewed next step

The shared foundation Battery ontology · Knowledge graph · Approved knowledge base · Traceable analysis



IndustrialMind combines manufacturing expertise, AI agents and analytics across engineering, operations and quality. We help teams connect evidence, investigate failures and retain validated learning.

How we work with you

Start with one question and representative data. Agree on success measures, build a focused workflow and validate the result with your engineering owner.

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