



Introducing Agentic Requirements Engineering

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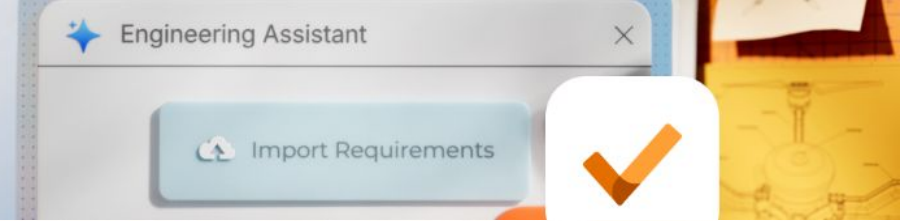


Agenda



- 1** **Why Good Requirements Matter**
Why teams struggle
- 2** **Requirements in Altium**
Intro to Requirements Portal
- 3** **Agentic Requirements Engineering**
Four new AI capabilities. Workflow examples. Live Demo.
- 4** **How to Get Started**
Start. Adopt. Scale. Automate.
- 5** **Live Q&A**
Add your questions in chat.

Why Good Requirements Matter



> Get requirements right and your team [builds better products](#) and iterates faster

What are requirements?

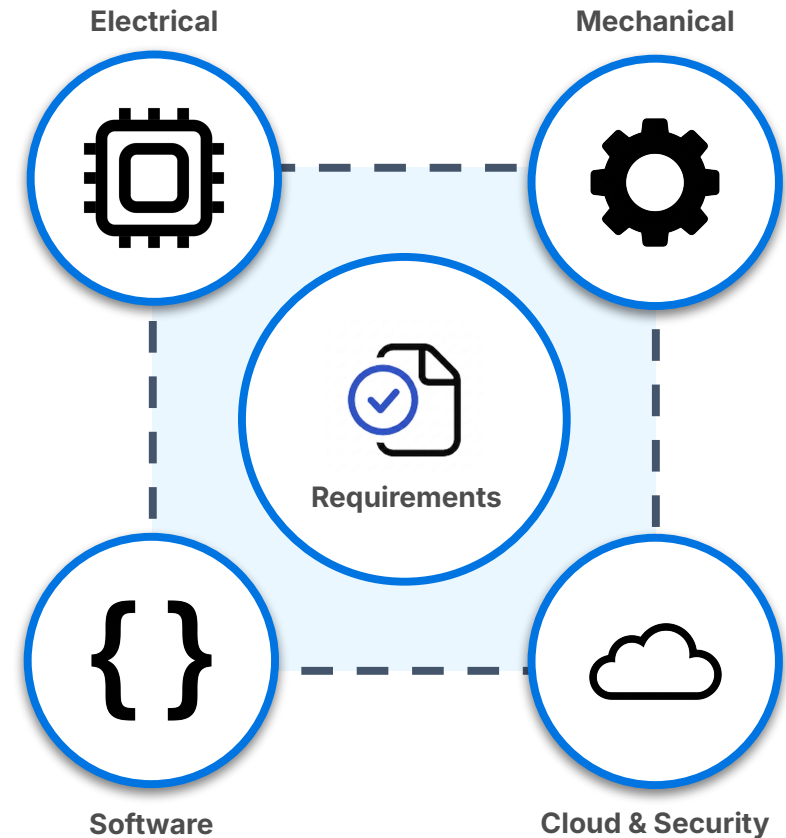
- Codified statements
- Inputs for design and verification
- Necessary for compliance

✗ The sensor shall be low power.

Vague / Unverifiable

✓ The sensor shall consume 1 W while active and 0.01 W in standby.

But there's another way to think of requirements...



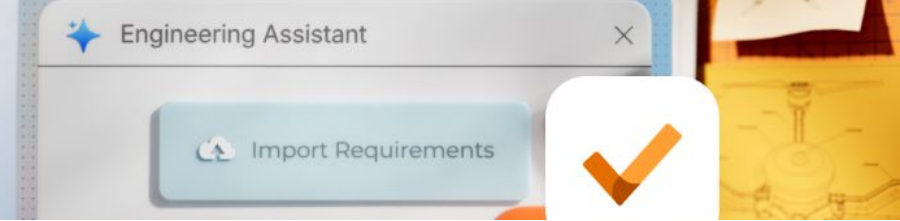
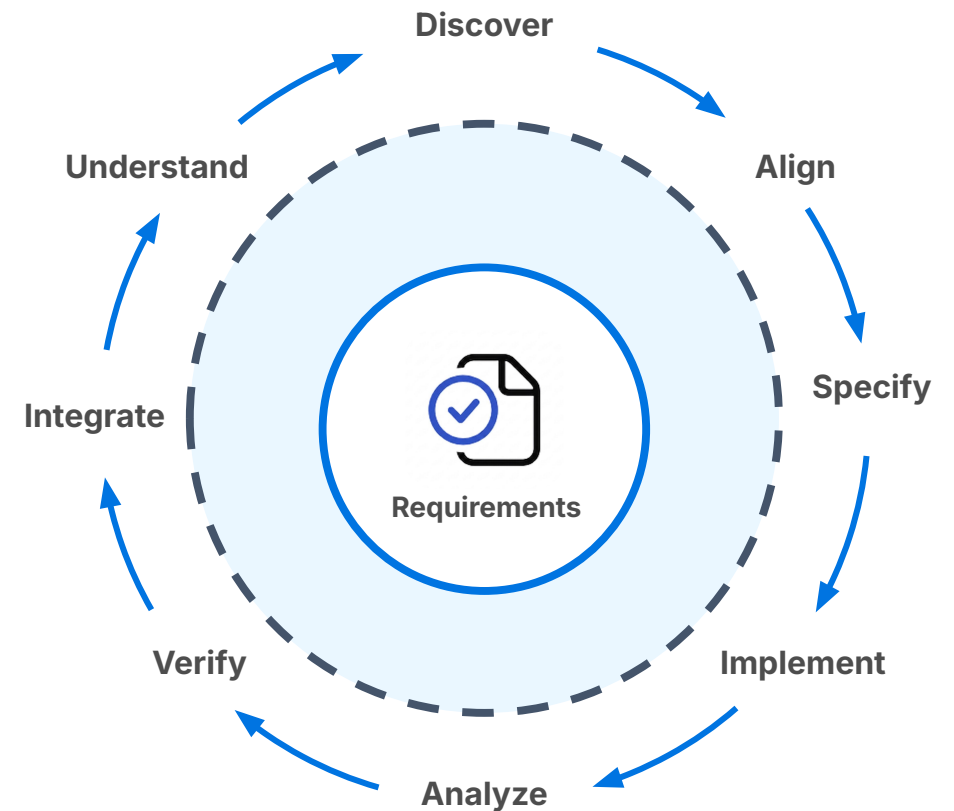
Why Good Requirements Matter

> Get requirements right and your team builds better products and [iterates faster](#)

What are requirements... really?

- Mini-contracts between stakeholders
- Text-based representations of your system
- Communication tool that keeps teams aligned

> The best engineers treat requirements as a [shared mental model](#) that evolves with their product



Good Requirements Matter

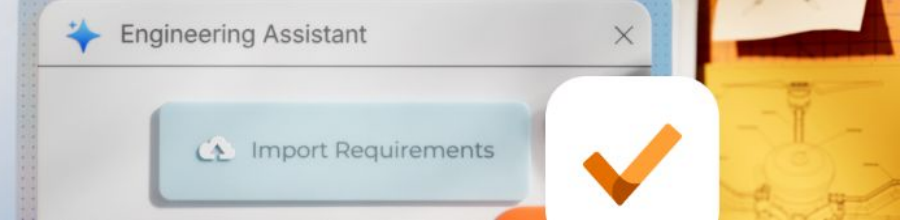
What's Holding You Back?

What is currently your top challenge when working with requirements?

Lack of time? Lack of processes or know-how?
Lack of effective tooling? Lack of internal buy-in?
Something else?

Write your answer in the chat.

What Engineers Are Saying



Teams aspire to become more requirements-driven

... but need guidance on how to get there

"Requirements processes and testing are areas we identified that could speed up our product development."

Engineering Manager



Designs and requirements evolve in parallel

... but in practice, they stay disconnected

"Design work starts in parallel with requirements analysis. Making sure everything matches happens later."

Systems Engineer



Ease of use is make-or-break for adoption

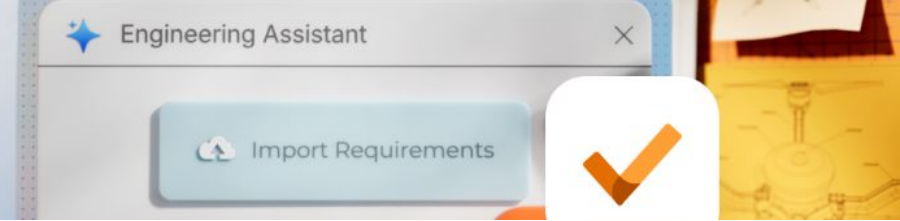
... but most tools are built for requirements experts

"If you make a new tool too difficult to use, you make it irrelevant."

Electronics Engineer



The Problem with Requirements Today



> Engineers know **good requirements matter** but every existing option forces a trade-off

Speed & Ease

Structure & Compliance

Documents and Sheets

- + Familiar and fast to start
- Error-prone and entirely manual
- Break down as complexity grows

Like designing from a schematic printed on paper

AI Chatbots

- + Genuinely useful tools
- Blind to your full project context
- Can't act on your actual data

Amplify already problematic workflows

Traditional RMS

- + Powerful databases
- Built for experts, not engineers
- Heavy, form-driven, disconnected

Feels more like admin than engineering

> Until now, the tools made it **near impossible** to treat requirements as a shared mental model



REQUIREMENTS
PORTAL

Requirements in Altium

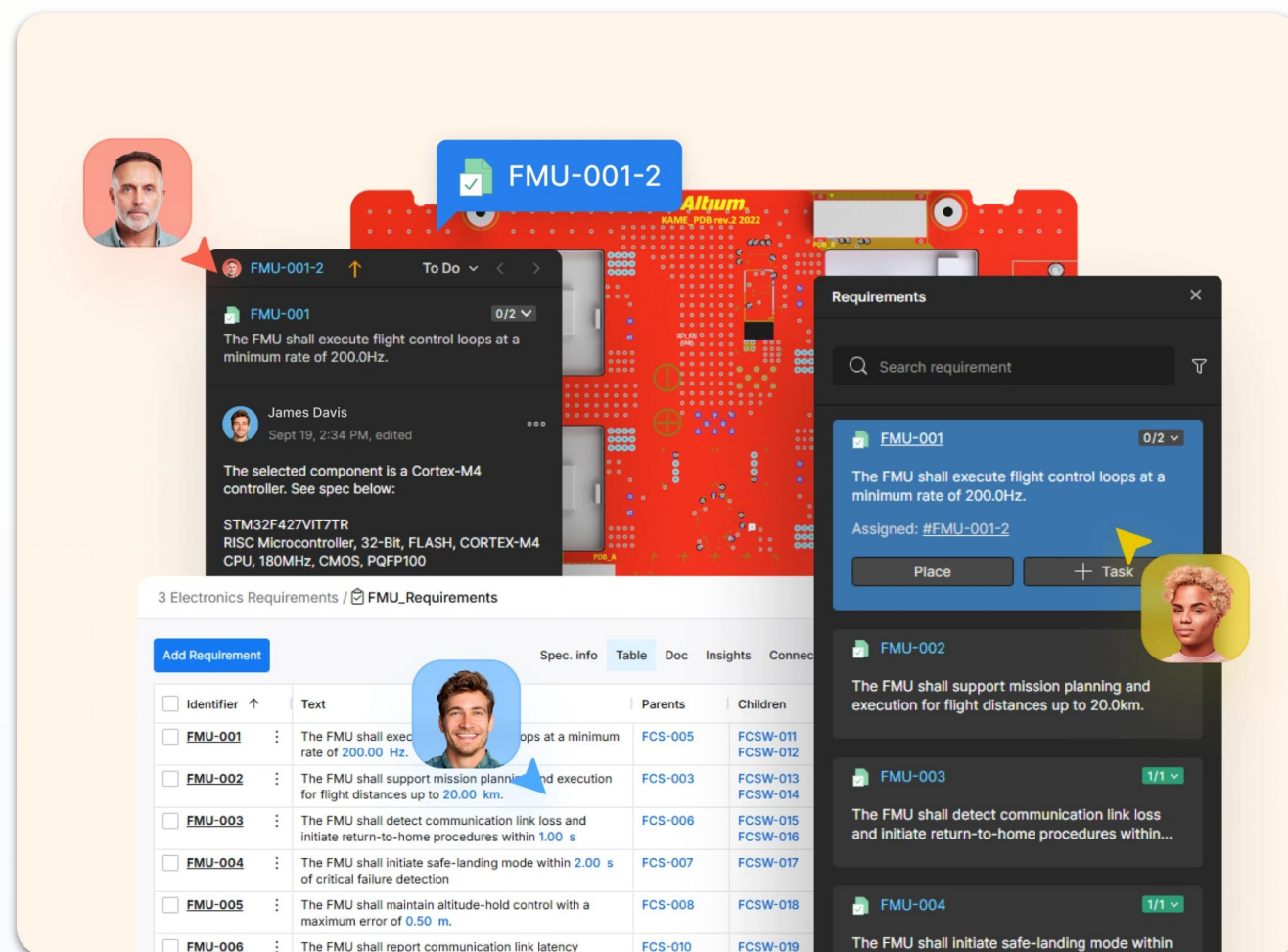
Iterate faster with a lightweight
requirements tool built for hardware teams.

Manage and Share Engineering Requirements
Keep your team aligned on a shared spec.

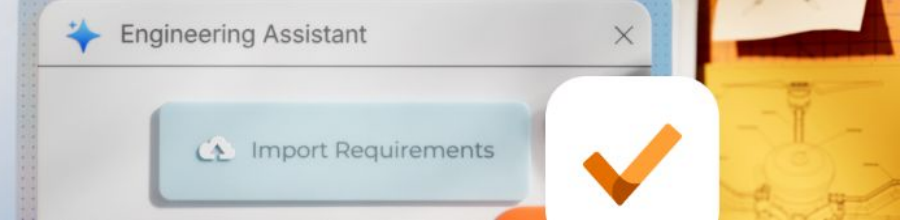
Link Requirements to Design & Verification
Connect your engineering data to ensure traceability.

Bring Requirements into Your Workflow
Start in minutes. Scale as you grow.

Included in: **Altium**. Develop **Altium**. Agile Teams



Three Enabling Technologies



> We believe in putting engineers in the pilot seat and giving the tools they need to get the job done



Shared Cloud Workspace

For team alignment and collaboration

- ✓ Structured data, not scattered documents
- ✓ Accessible to the whole team



Connected Requirements Data

For traceability and data infrastructure

- ✓ Requirements linked to design projects
- ✓ V&V activities traced to requirements



Agentic Requirements Engineering

For productivity and faster iterations

- ✓ Agents live and act directly in your project
- ✓ Import, structure, and check automatically



REQUIREMENTS
PORTAL

Agentic Requirements Engineering

Build better hardware with AI agents that live and act in your requirements tool.

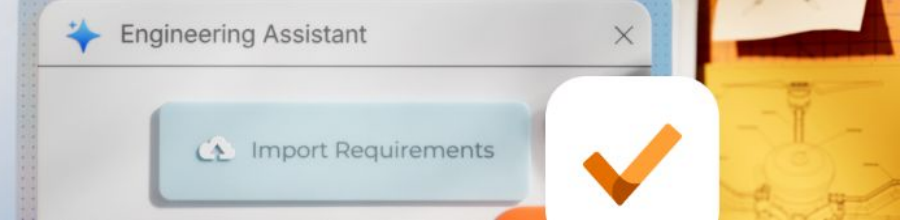
Less Busywork, Better Requirements
Describe what you need. AI handles the rest.

Import From Anywhere
Turn notes, spreadsheets and PDFs into requirements in seconds.

Catch Issues Early
Agents flag issues before they get expensive.



AI Agents That Act on Your Requirements



> Close the gap between the model in your head and the **shared model** your team works from.

Engineering Assistant

AI with full context of your requirements.
Preview changes before applying.



AI-Assisted Importer

Turn any document into structured requirements fast.



AI Skills

Encode your processes and reuse them across projects.



Background Agents (Coming soon)

Scans your spec automatically. Surfaces issues for review.



> AI is only useful if engineers can trust it. Trust requires control.



Purpose-Built for
Technical Requirements



No Change without
Explicit Approval



Configurable to
Your Process

Live Demo

Let's see these workflows in the tool

Capture

Understand

Assess Impact

Turn Scattered Inputs into Structured Requirements

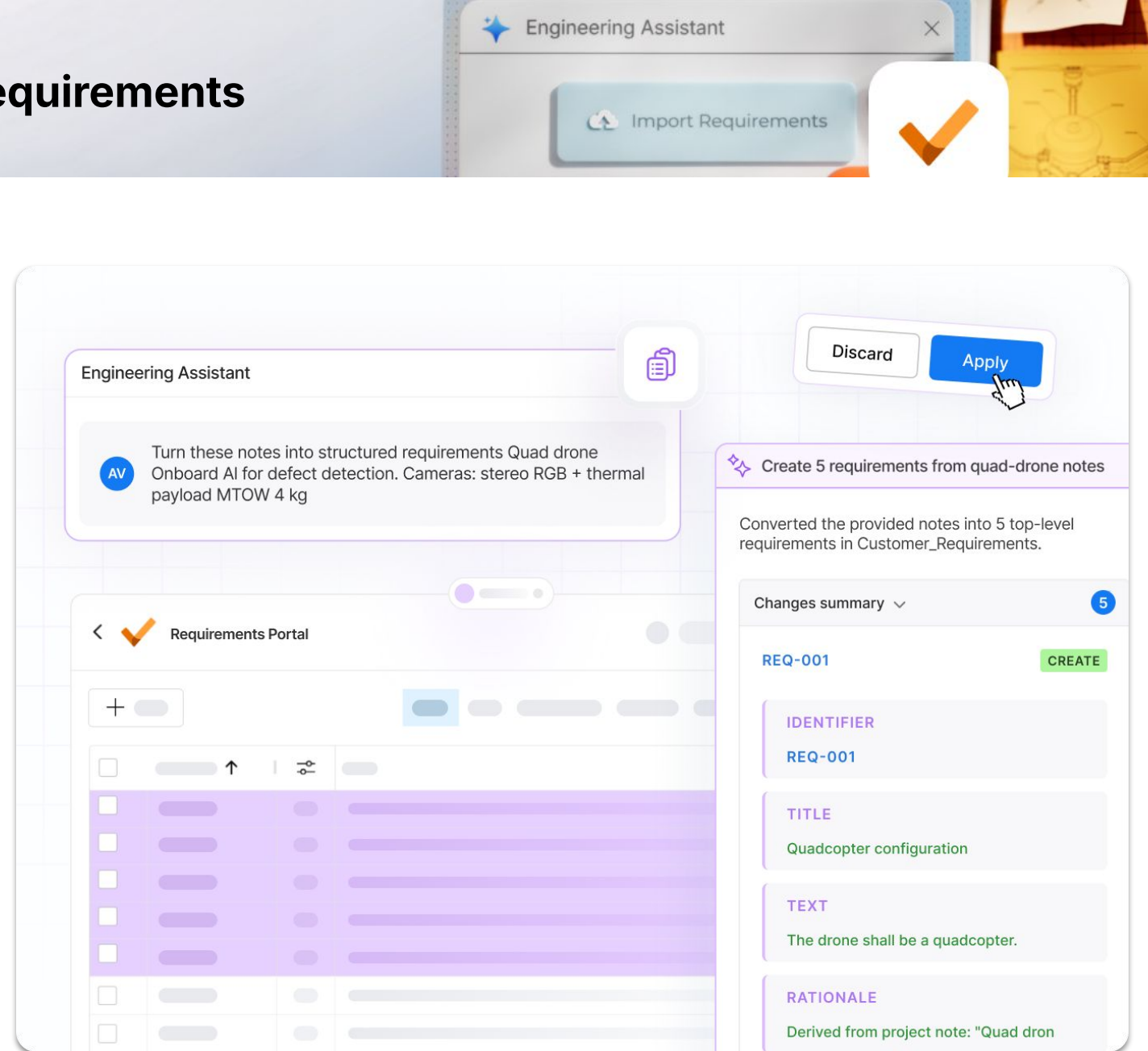
The Scenario

A Project Manager kicks off a new project. Requirements come in as emails, notes from a meeting, and a spreadsheet from a past project.

The Old Way Manually rewrite vague requests

With Agentic AI in Requirements Portal

1. The **AI-Assisted Importer** pulls requirements from your customer's spreadsheet
2. The **Engineering Assistant** converts meeting notes into properly formatted requirements
3. Each requirement comes back with an identifier, title, text, and rationale



Understanding a New Specification Fast

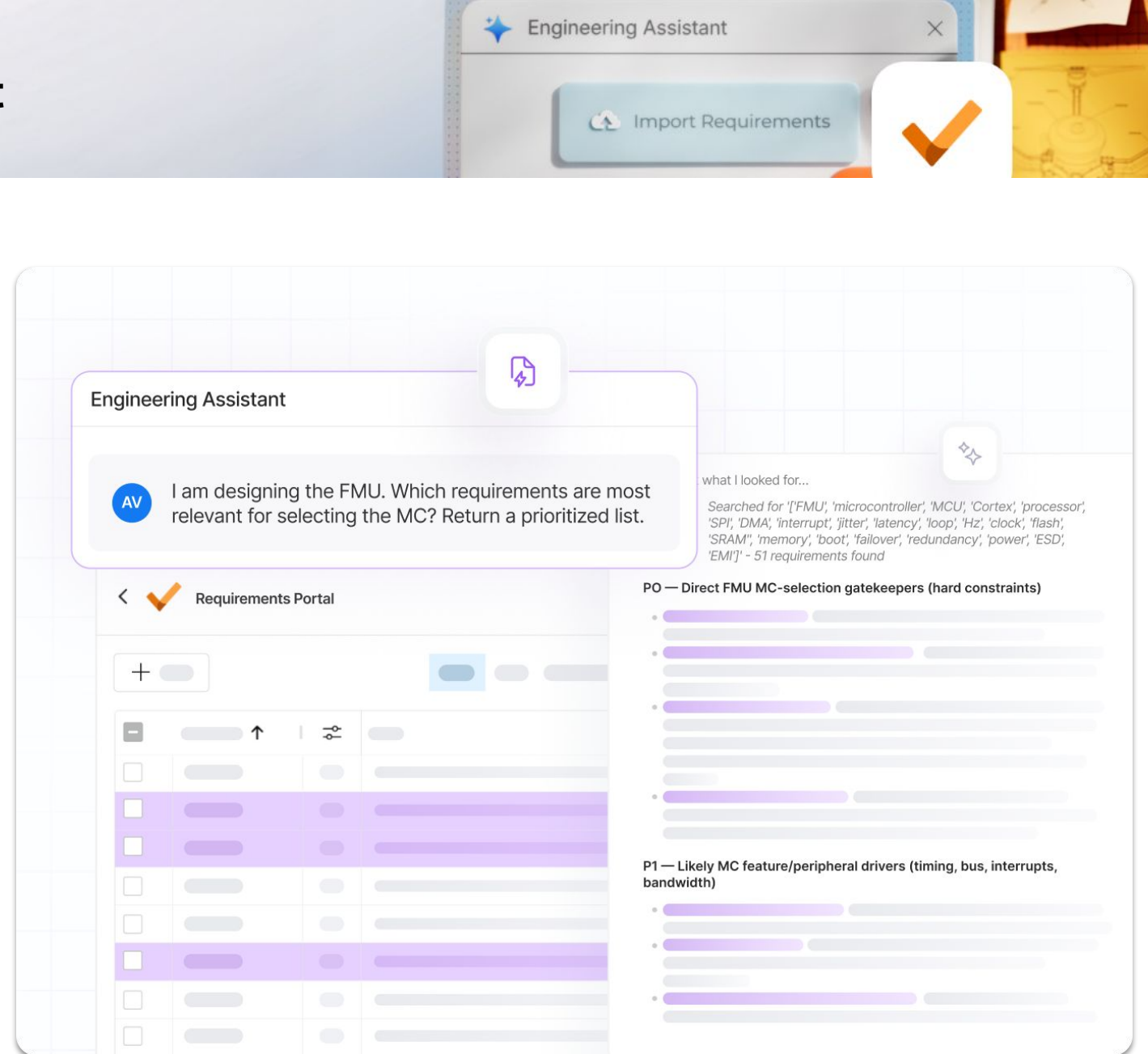
The Scenario

An Electronics Engineer joins the project and needs to find what's relevant to their work fast. There are system, PCB, and software specs to go through.

The Old Way Manually read through 120+ reqs

With Agentic AI in Requirements Portal

1. Ask the [Engineering Assistant](#) which requirements affect your PCB design
2. View all relevant power budget, EMC/ESD, and pin requirements instantly
3. Understand what's relevant and start working on the project in minutes



Assessing the Impact of a Change

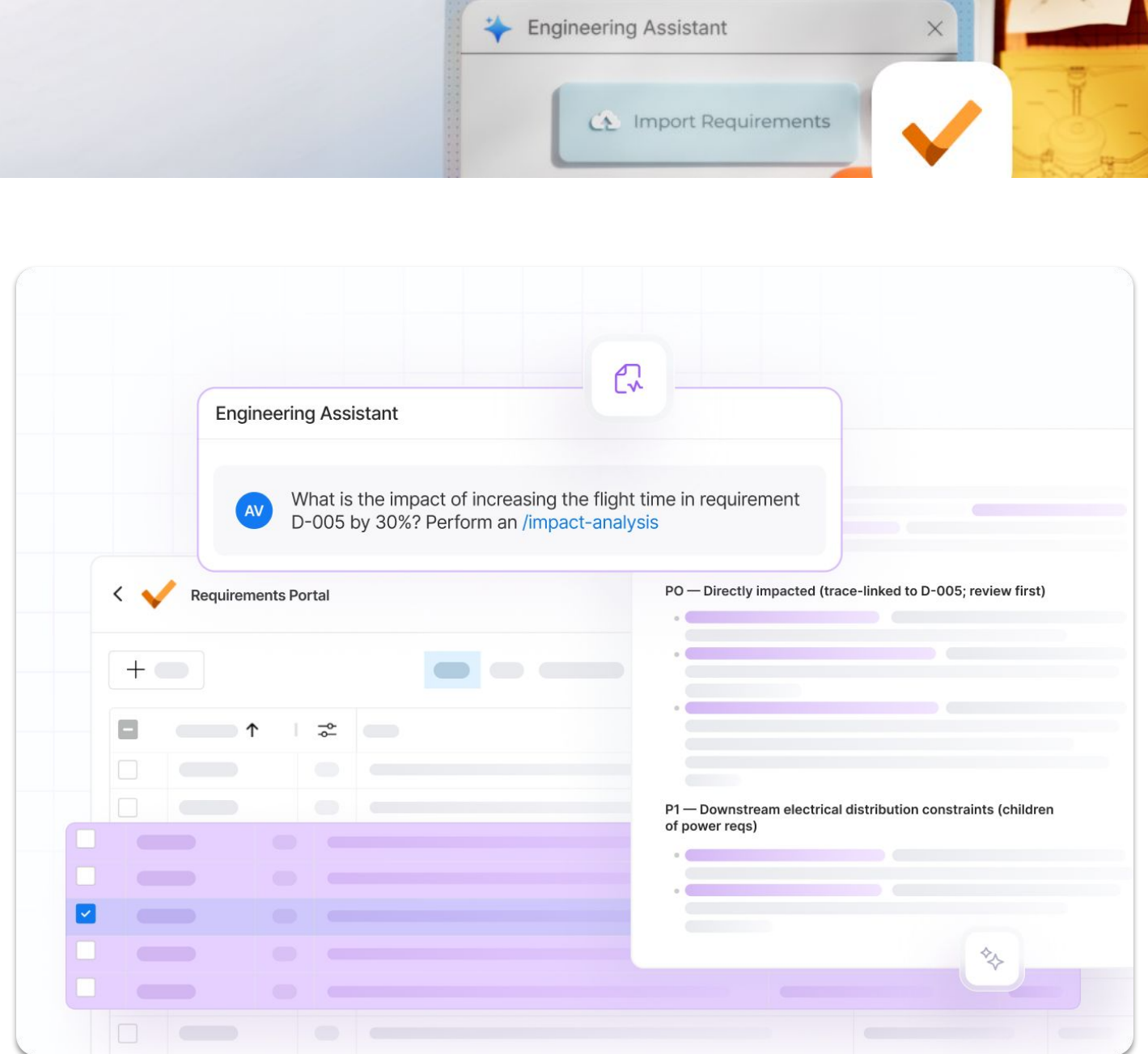
The Scenario

Mid-project, the customer requests a 30% increase to a system requirement. The change cascades across systems, designs, and test cases.

The Old Way Find and update every item manually

With Agentic AI in Requirements Portal

1. Ask the **Engineering Assistant** for a prioritized list of items that need attention
2. Impacted requirements linked to downstream engineering work are highlighted in your tool
3. Review report and apply recommended next steps



Fix Gaps and Inconsistencies Before a Review

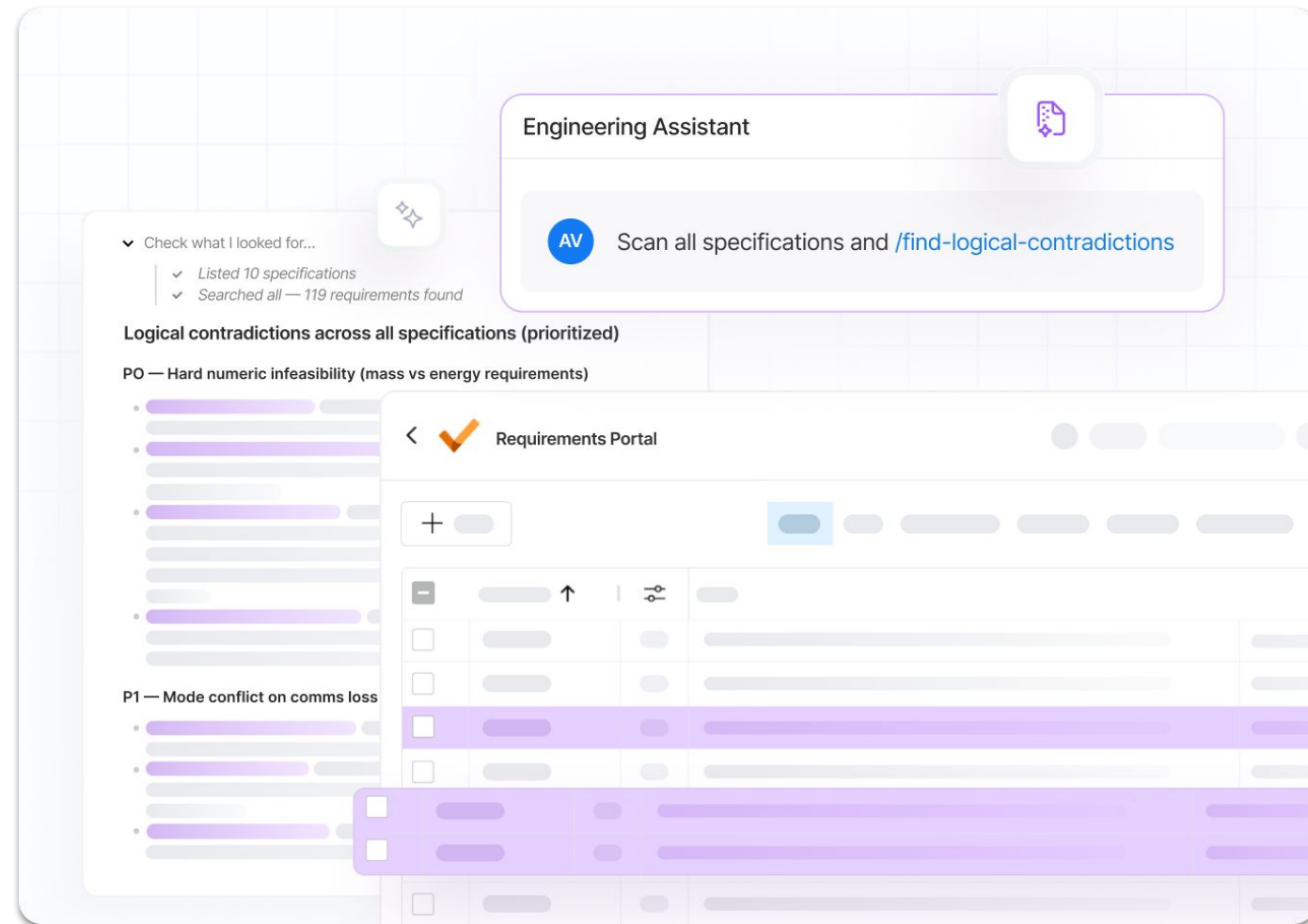
The Scenario

A Systems Engineer is preparing for a review. The spec needs to be complete, but contradictions are hard to catch in a doc.

The Old Way Rely on reviewers to spot gaps

With Agentic AI in Requirements Portal

1. Run an [AI Skill](#) or set up a [Background Agent](#) to scan the full spec for issues
2. You are presented with a report with gaps and issues that need your attention
3. Each issue comes with a recommended fix for you to review



Draft Test Cases and Ensure Full Coverage

The Scenario

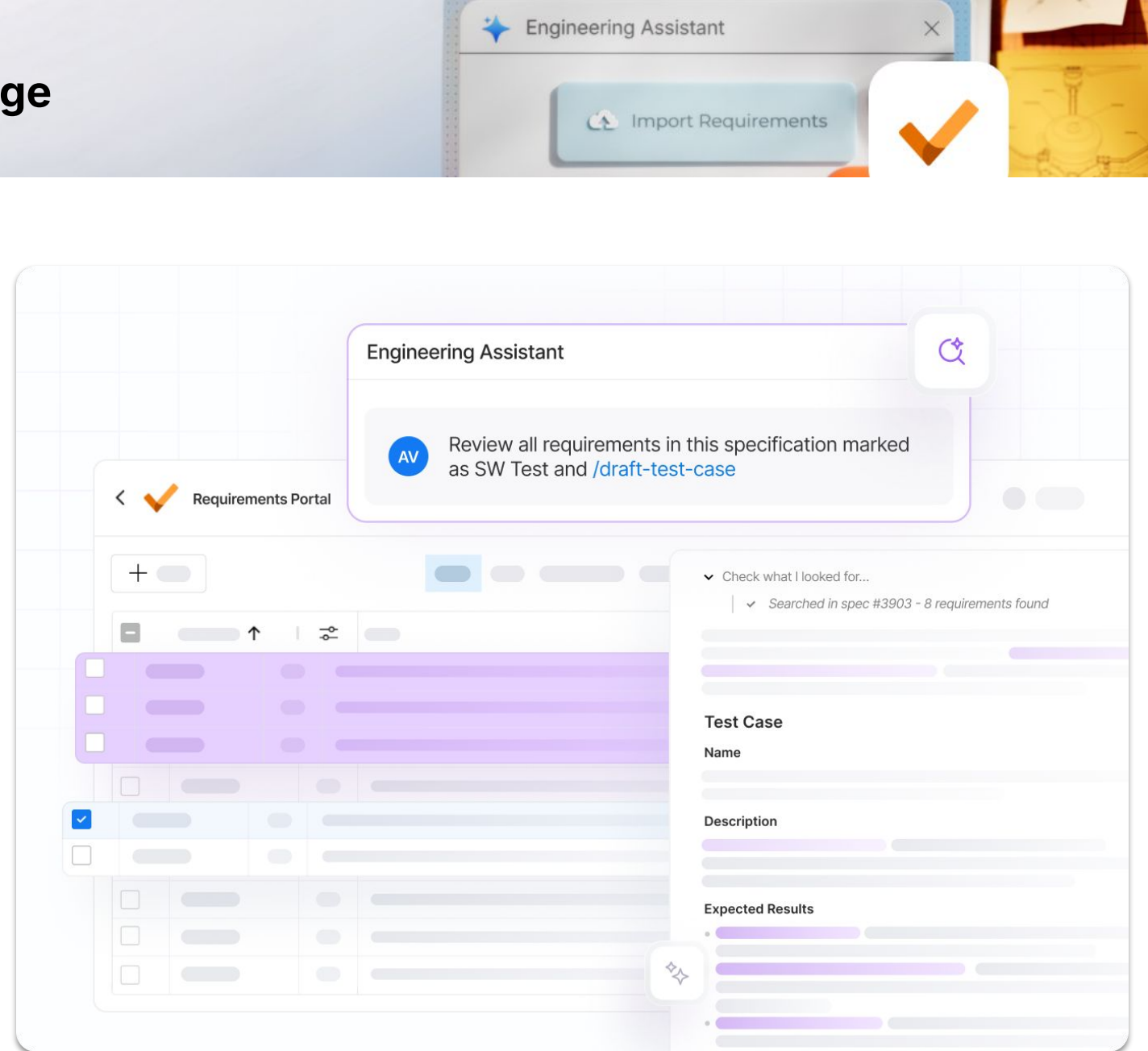
A Verification Engineer needs to ensure every requirement has a test case. Requirements and test procedures live in separate places.

The Old Way

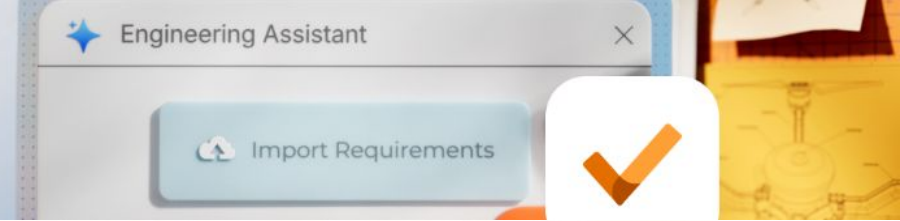
Manually map reqs to test

With Agentic AI in Requirements Portal

1. Ask the [Engineering Assistant](#) to find requirements with no V&V activity linked
2. Run an [AI Skill](#) to draft test cases using your company's template
3. Confirm full verification coverage before a single test begins



How Teams Get Started



> Start simple. Expand as requirements become part of how your team works.

01

Start

Capture and Share Requirements

- Import requirements from PDFs or spreadsheets
- Refine and break them down with the Engineering Assistant
- Share with the team — they can ask questions and start building



02

Scale

Build Your Processes

- Encode your team's processes into AI Skills
- Use consistent templates, vocabulary, and standards
- Run the same quality checks across every project



03

Automate

Always-On Proactive Checks

- Background Agents monitor your requirements continuously
- Run on a schedule or trigger when a requirement changes
- Catch mistakes before they spread, no manual checks

> No need to reach stage 3 to get value. Each step is useful on its own and builds on the one before.

Altium

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REQUIREMENTS
PORTAL

Q&A

Build Better Hardware with
Agentic Requirements Engineering

Start Your
Free Trial
Today

Scan the QR code
to learn more

