



JITX · JUMPSTART KIT #0

JITX Configuration & Environment Validation

Get set up, authenticated, and validated — your launchpad for building with JITX

Drive your AI agent through install, auth, and skills — then prove it with a real build



Let's get JITX setup and AI-enabled correctly

You finish with a configured, authenticated environment, the JITX skills enabled in your AI agent, and the toolchain proven by real builds.

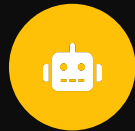
WHAT'S IN THIS KIT



1

Presentation

This deck — the goal, the flow, and how to start.



2

Setup runbook

Paste it into your AI agent. It runs and validates the whole setup, pausing twice for you.



3

Reference companion

The same steps by hand, for when you have no AI agent.



4

Environment setup

Machine prep: package and extension trust, the skills per runtime, and an IT / engineer checklist.

WHERE IT SITS

Setup · JS0

Stackup + Components · JS1



Circuit Construction & Optimization · JS2

Six steps, two depend on you



An AI agent runs these for you — Claude Code, Codex / GPT, or Devin — pausing twice for you: at sign-in, where you enter your own credentials, and at the closing design change, which you prompt.

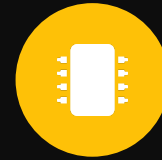
No AI agent? Run the same steps yourself from the reference companion.

Two builds to prove the toolchain



1 · Simplest

Create a new project and build the two-resistor template — the fast “it works.”



2 · Full (JITX 4.2.x)

Build si_bga_optimization from jitx-examples — the real toolchain exercise. Skipped on 4.3+.



Builds successfully? One more thing — let's close the loop. One prompt turns your design intent into a real, visible change — see the next slide.

Change one parameter, watch it rebuild

Now change what you built. On `si_bga_optimization`, ask your agent to change the differential-pair trace width to 0.0762 mm and the pair spacing to 0.1568 mm — on the template, ask it to change a resistor value. It edits the design, rebuilds, and the view redraws — the whole design-as-code loop in one prompt.



THE ONE PROMPT

“change the differential-pair trace width to 0.0762 mm and the pair spacing to 0.1568 mm”

`DIFFPAIR_TRACE_WIDTH` 0.115 → 0.0762 mm

`DIFFPAIR_PAIR_SPACING` 0.118 → 0.1568 mm



That's the loop: prompt → code → build → see it. You're ready for JS1.