

Custom Engineering & Consulting

Independent, multi-disciplinary engineering from strategy through implementation.

custom-engineering-consulting · Revision Draft · 2026-07-07 · Status: **Draft**



Figure FIG-001 — Custom Engineering & Consulting: one accountable partner across robotics, AI, software, hardware, and mechanics.

When the problem does not fit a product, we engineer the solution. 5Tech works across robotics, AI, software, hardware, and mechanics to advise on the right approach and, when you want, build it — a single accountable partner from strategy to implementation.

Overview

Some problems do not map to a product, a single discipline, or an obvious vendor — that is where independent, multi-disciplinary engineering earns its place. 5Tech works across robotics, AI, software, hardware, and mechanics, which lets us take responsibility for a whole problem: assess it honestly, recommend a direction, and, if you want, build it — instead of handing you between specialists who each see only their part.

An engagement can be as light as a feasibility study, architecture review, or technical due diligence, or as deep as acting as your outsourced engineering team for a defined program. Either way you get an independent view you can act on: what is feasible, what it will roughly cost, what the risks are, and — when it is the right answer — a clear recommendation not to build something.

When we do implement, we integrate with your existing systems and teams and hand over documentation and knowledge so you are not dependent on us to operate what we built. The value is a single accountable partner from strategy through to a working, maintained system.

How you engage is up to you: a one-off assessment or architecture review, ongoing technical advisory, or an outsourced engineering team for a defined program. We give budgetary and risk guidance you can take to stakeholders, and we are comfortable saying an idea is not worth building — independent advice is only valuable if it is honest. The through-line across every engagement is accountability: one partner responsible for the outcome across robotics, AI, software, hardware, and mechanics, instead of a set of specialists who each own only a slice of the problem. That is particularly valuable for cross-disciplinary work that tends to fall between vendors.

Who this is for

- Teams facing a problem no off-the-shelf product solves
- Leaders who need an independent technical assessment before investing
- Organisations that want one partner across hardware, software, and controls

Problems we solve

- A custom problem with no clear product or vendor
- Conflicting vendor advice and no independent technical view
- Cross-disciplinary work that falls between specialists
- Projects that stall between "idea" and "implemented"

What you get (deliverables)

- Technical assessment, architecture, and a recommended approach
- Feasibility, risk, and budgetary guidance you can act on

- Optional full implementation across our five engineering pillars
- Integration with your existing systems and teams
- Documentation and knowledge transfer

How we work

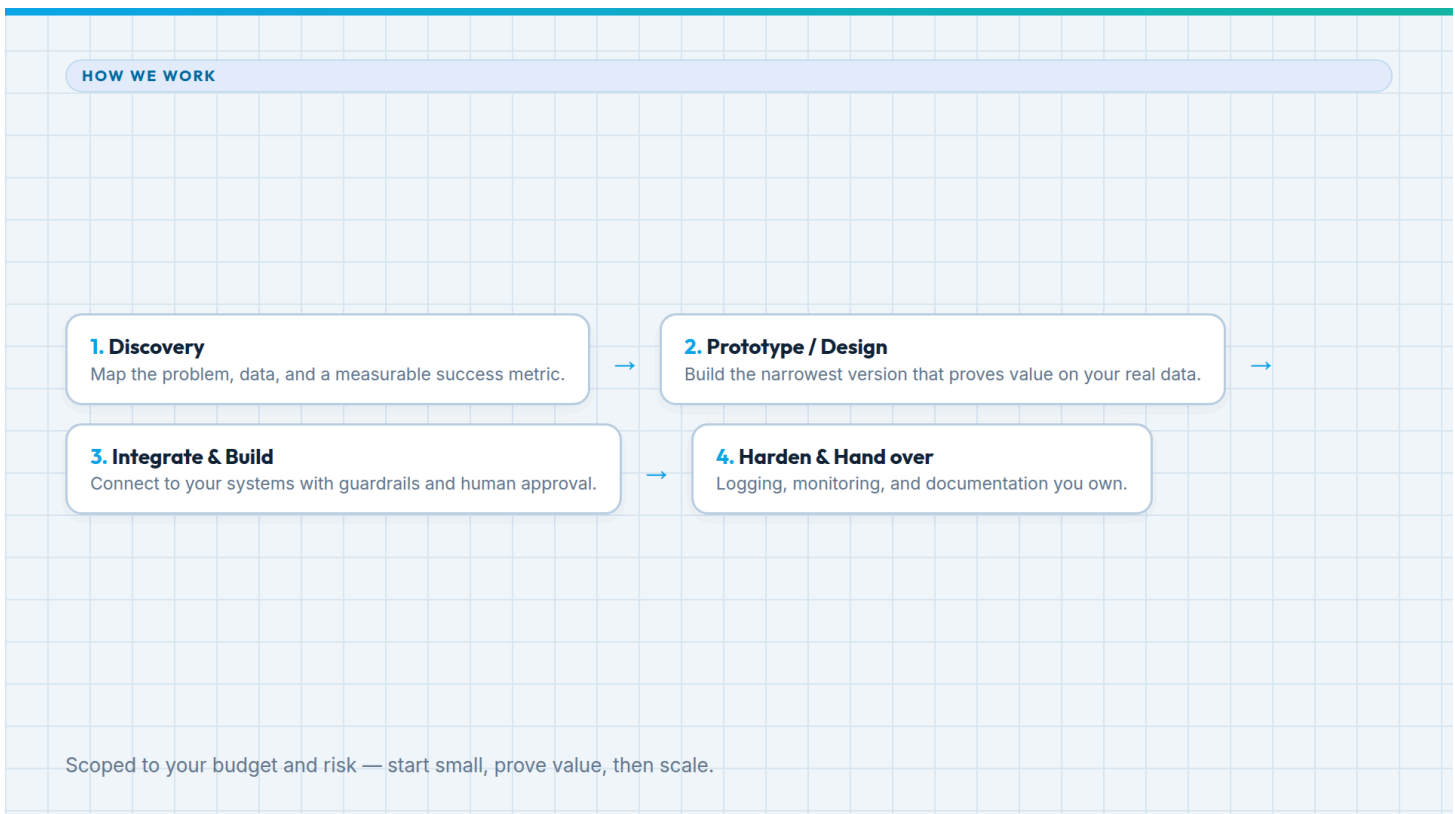


Figure FIG-002 — The engagement, honestly scoped: understand, assess and recommend, implement if you choose, then transfer.

The engagement is deliberately staged so you can act on an independent view before committing to a build — and stop after the assessment if that is the right call.

- 1. Understand** — Learn the operation, constraints, and the outcome that matters.
- 2. Assess & recommend** — Give an independent, honest technical direction — including "do not build this".
- 3. Implement (optional)** — Engineer and integrate the solution if you want us to build it.
- 4. Transfer** — Document and hand over so your team can operate and maintain it.

Example use cases

- Independent feasibility and technical due diligence

- System architecture for an automation or product initiative
- Cross-disciplinary builds spanning hardware, software, and controls
- Rescuing or completing a stalled engineering project
- Acting as an outsourced engineering team for a defined program

Frequently asked questions

Do you provide consulting only or full implementation? Both. Some clients want an independent assessment and architecture; others want us to build and integrate the whole system. You choose the depth.

What kinds of engineering do you cover? Robotics, AI, software, hardware, and mechanics — which lets us take responsibility for cross-disciplinary problems instead of handing off between specialists.

Will you tell us if an idea is not worth building? Yes. An honest "no" or "not yet" is part of the value of independent engineering advice.

Related services & industries

Related services

- [Hardware & Software Prototyping](#) — prove the riskiest part before a full build.
- [Robotics & Automation Engineering](#) — integration, motion control, and safety for real operations.
- [AI Automation & AI Agents](#) — automation that runs real operational work.

Related industries

- Manufacturing automation
- Research & prototyping
- Small-business automation

Figures

ID	TITLE	STATUS	FILENAME	PURPOSE
FIG-001	Industrial Hero Render	Missing	images/hero_service.png	Service cover / hero
FIG-002	Engagement Process	Missing	diagrams/process.png	The service engagement process

Full generation prompts for both figures live in `figures.json`. Voice and content mirror the live site (`content/services.ts`, slug `custom-engineering-consulting`): capability-based and honest, with no invented metrics, client names, or results.