

MANUFACTURING & JOB SHOPS

The Manufacturing **AI Audit**

18 diagnostic questions to identify exactly where your back office is bleeding hours per week on manual data entry and repetitive workflows.

Why This Audit Matters

California job shops have entire roles dedicated to reading customer spec sheets and creating work orders. This audit shows how private AI can parse drawings and draft BOMs without leaking IP.

The 18-Point Diagnostic

Order Intake & Quoting

- 1. Is order intake the single biggest bottleneck between an RFQ and a quote?
- 2. Do customer specs arrive in 6 different formats requiring manual normalization?
- 3. Does it take more than 24 hours to generate an accurate quote?
- 4. Do estimators spend more time data-entering specs than actually estimating?
- 5. Are you losing bids simply because the quoting process is too slow?
- 6. Do you manually transcribe PDF blueprints into your ERP/MRP?

Production & Inventory

- 7. Is drafting a Bill of Materials (BOM) a manual, error-prone process?
- 8. Do you rely on physical paper routing sheets on the shop floor?
- 9. Are inventory levels manually updated at the end of shifts?
- 10. Is tracking raw material certs (MTRs) a manual filing nightmare?
- 11. Do quality control reports require manual transcription into a database?
- 12. Are machine downtime logs kept in spreadsheets rather than real-time systems?

System & Data Sovereignty

- 13. Are you unable to use ChatGPT because CAD specs and IP are highly confidential?
- 14. Are your shop floor SOPs undocumented 'tribal knowledge'?
- 15. Is your legacy ERP heavily customized and difficult to integrate with?
- 16. Do defense/aerospace compliance (ITAR) strictures prevent public cloud AI use?
- 17. Do you lack a centralized, searchable database for past successful runs/quotes?
- 18. Does training a new estimator take over 6 months?

Scoring Rubric

0-4

EXPLORING

Operations are lean. Monitor AI for future gains.

5-9

READY

Clear bottlenecks exist. ROI will be immediate.

10-14

URGENT

Manual tasks actively prevent scaling.

15-18

BLEEDING

Severe operational tax. Over-paying for labor.

What We Build

Sovereign Architecture

Agents deployed in your AWS/GCP. Parse complex engineering drawings, spec PDFs, and email RFQs to draft the Bill of Materials.

Predictable Flat Fees

No per-token metering or hidden API taxes. We charge a flat monthly subscription tied to capacity.

Multi-Channel Triaging

Monitor customer RFQ emails, extract the required specs, and draft the routing for your shop foreman to approve.

Your IP Stays Yours

Unlike ChatGPT, our models are isolated. You own the workflow, the system, and your private data remains completely sequestered.

Armen Donigian

Founder, Performance AI Lab | Former Meta SuperIntelligence Lab

With 25 years in software engineering and enterprise infrastructure, I build systems that prioritize security, scale, and measurable ROI.