

Alex Pazdnikoff

AI Solutions Architect · agentic delivery, RAG, evaluation · AI inside business systems

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Architect who puts AI to work inside real business systems — under engineering control. I run my own agent platform where agents plan, code and review, an independent reviewer model (LLM judge) gates quality with thresholds fixed in advance, and a human approves merges and production actions.

With AI agents I designed and built a CRM/ERP platform (45 Django apps, now a pilot) solo in 5.5 weeks and audited a production Bitrix24 ↔ 1C integration. 15+ years leading IT keep the focus on outcomes, data quality and operation — not demos.

CORE COMPETENCIES

AI engineering & agentic systems: Agent pipelines (planner, coder, independent reviewer model — an LLM judge), private RAG, MCP tools, evaluation with thresholds fixed in advance, human approval before merge.

Solution & enterprise architecture: System boundaries, modules, data models, APIs and integration contracts — with the trade-offs written down as decision records.

Business & systems analysis: Interviews, AS-IS / TO-BE process maps, requirements and acceptance criteria, data audits.

Systems integration: Bitrix24, 1C, EDI, warehouse and hardware: event queues, idempotency, reconciliation and safe clean-up of production data.

Technical leadership: Priorities and backlog, vendors and contractors, risks, launches and the operation that follows.

Engineering depth: Linux infrastructure and monitoring, embedded and medical-device firmware — used when the problem sits below the application.

RECENT PROJECTS

2025 – 2026

Architect & operator

Own AI agent platform

- Self-hosted platform where agents plan, code and review changes and a human approves merges and production actions: independent judge, private RAG (pgvector), MCP tools.
- Local 27B model on one GPU for routine work, cloud models for setup and hard tasks; production actions only through approval cards.

2026

Founder & solution architect

Own CRM/ERP platform

- Analysed the processes of a medical-equipment distributor and designed a modular CRM/ERP to replace an off-the-shelf portal: 45 Django apps — CRM, contracts, warehouse, procurement, delivery, workflow engine, mail, chat, BI.
- Built it solo in 5.5 weeks (359 commits): AI agents wrote most of the code, I owned the analysis, architecture, data model and review of critical paths. Transactional outbox for 1C, idempotent migration from Bitrix24, Flutter mobile client. Deployed as a pilot (3 users), not yet in daily operation.

2024 – 2026

Lead integrator & architect

Medical equipment distributor

- From mid-2024 rolled out Bitrix24 — first with a contractor, then myself: processes, automation, mobile workplaces, an instruction for every role; in my estimate stock fell by more than half. In 2026 audited the broken 1C exchange: 1.88M queue entries for dead endpoints, three parallel channels.
- Subscriptions 159 → 54, queue → 0, own event filter; phantom records 1,659 → 681 moved to the recycle bin after a dry run, with backup; contract ↔ deal sync, service and warehouse workplaces with mobile PWAs.

2025 – 2026

Deployment & data migration lead

Medical device manufacturer

- Deployed and upgraded a .NET / Blazor manufacturing portal next to the existing CRM; 12 database migrations applied in production.
- Moved product structures from Excel into the portal with idempotent Python ETL — BOMs up to 377 parts; the first purchase request was created from them.

2023 – 2026

Engineer

Own devices

- ESP32-S3 devices from idea to prototype: offline voice assistant, IMU motion gloves, USB printer emulator.
- ZMK keyboard firmware: median key-to-report latency 50.2 → 0.1 ms, measured from logs; code public on GitHub.

2025

Firmware engineer

Medical device manufacturer

- Audited and fixed AVR firmware of a medical device (I2C hang, false leak alarm).
- 27 host-run unit tests, zero-warning reproducible build, software documentation per IEC 62304 for registration.

LEADERSHIP ROLES

Nov 2024 – Jul
2025

Head of Digital Transformation

Duna-Stroy

- Mapped the manual operations and designed the target workflows; defined requirements and business logic for internal services: requests, leave, IT support, cross-department tasks.
- Designed the integration architecture between the corporate platform and 1C for employee and organisational data; wrote the specifications and took the 1C ↔ Bitrix24 exchange through implementation and testing.
- Rolled out one task and project model for all departments — routing, status tracking, execution control — and put the external IT provider on the same managed channel.
- Led the roll-out of Bitrix24 as the shared workspace; by the time I left, requests, leave and IT tickets were handled in one portal.

Nov 2023 – Oct
2024

Head of Technical Support

Poleznyi Soft

- Led the launch of three automated parking facilities with 30+ entry and exit lanes: software deployment, equipment integration, commissioning into production.
- Turned customer feedback and root-cause analysis into technical requirements and a prioritised product backlog; worked with developers on fixes and features.
- Took part in integrations with video surveillance and access control; introduced a Kanban support process, a self-service portal with a chatbot and a shared knowledge base.

Nov 2011 – Apr
2023

Head of Information Technology

UK Raduga – large shopping and entertainment complex

- Built central monitoring of 1,500+ server, network, security and engineering devices: incident detection and localisation went from hours to minutes.
- Designed the integration between the entertainment management system and 1C, automating the flow between operations and accounting.
- Delivered video recording for an indoor skydiving facility, digital signage on 7 displays, guest Wi-Fi with 14 access points for up to 700 visitors, CCTV of 100+ cameras.
- Designed and operated servers, Hyper-V, backup, networks, VPN and access control; managed suppliers, contractors and technical projects.

TECHNOLOGY

Architecture & analysis: C4, ADR, AS-IS / TO-BE, REST / OpenAPI, Event-driven integration, Transactional outbox

Enterprise platforms: Bitrix24 (D7, REST, workflows), 1C (BSL, CommerceML, OData), EDI (Diadoc, SBIS)

Backend & data: Python / Django / DRF, Celery, HTMX, FastAPI, .NET / Blazor, PHP, PostgreSQL, Redis

Clients: Flutter, PWA, Electron

AI: Claude Code / Claude API, MCP, RAG (pgvector), LangGraph, llama.cpp / Qwen, LLM judges & evaluation

Infrastructure: Linux, Docker, nginx, Forgejo CI, Monitoring, Backup

Embedded (secondary): C / C++, ESP-IDF, Zephyr / ZMK, AVR, STM32

EARLIER EXPERIENCE & EDUCATION

Forum Group — System Administrator (2011–2012); Service Ural — System Administrator (2008–2009); Vitamin Plus — Systems Engineer (2007–2008).

Ural State Forest Engineering University — Faculty of Economics and Management, Management of Organisation, 2006.

LANGUAGES

Russian — native

English — technical, conversational