

Bairam Osmanov



Forward Deployed AI Engineer — Construction Tech

I bring AI and automation into construction workflows — from stakeholder interview to production. Civil engineer by training, full-stack builder in practice — I own the full delivery loop: scope the problem with the people doing the work, build the prototype, ship it, keep it running. Technology earns its place when it saves hours, prevents errors, and produces numbers a decision-maker can act on.

Location: Moscow, Russia · Tbilisi, Georgia

Availability: Open to full-time roles and contracts

Languages: Russian, English, Azerbaijani, Turkish

Telegram: [bairam_osmanov](#)

Phone: [+7 925 025-33-76 \(RU\)](#) · [+995 557 697 040 \(GE\)](#)

Email: neurobuildproject@gmail.com (work) · bairam.osmanov@mail.ru (personal)

Website: intro.neurobuild.ru

Experience

AI Integrator

Geospetsstroy · Moscow · Construction

Jul 2025 — present · 5 months

- Own end-to-end AI delivery at a general contractor: talk to engineers and managers on site, spot where workflows break, and ship solutions that fit how the business actually runs
- Build prototypes with real users, then present results — hours saved, errors avoided, money recovered — to leadership in language they can act on
- Run the infrastructure behind it (Docker, FastAPI, n8n, LLM orchestration) so tools stay reliable long after the pilot

Technologies: [n8n](#) · [Cursor](#) · [Python](#) · [JavaScript](#) · [FastAPI](#) · [Docker](#) · [LangChain](#) · [LightRAG](#) · [Telegram API](#) · [LLM](#) · [Hugging Face](#) · [Prompt Engineering](#)

3D Technology Integrator

Top 3D Shop · California · E-commerce

Sep 2022 — Apr 2025 · 2 years 8 months

- Solutions engineer for industrial 3D printing and robotics across a broad B2B base — engineering firms, manufacturers, universities — turning fuzzy goals into concrete equipment and workflow recommendations
- Built the business case for every deal: ran throughput and cost calculations, wrote proposals, and walked decision-makers through the numbers until they could defend the purchase internally
- Led delivery from purchase order to on-site installation and staff training, staying on the account until the equipment was used the way it was sold

Technologies: [Python](#) · [Bitrix](#) · [MS Office](#) · [OrcaSlicer](#) · [Google Workspace](#) · [Perplexity](#) · [Google Colab](#)

Data Analyst

MegaTech · Moscow · Telecom

Jun 2022 — Sep 2022 · 4 months

- Built a customer churn prediction model end-to-end: framed the question with marketing, engineered features from raw subscriber data, trained and validated gradient-boosted classifiers, and picked the one that best balanced precision and recall for the retention campaign
- Put the model into the marketing team's weekly workflow, so account managers worked from a ranked list of at-risk customers instead of chasing everyone

Technologies: [Python](#) · [Google Colab](#) · [scikit-learn](#) · [LightGBM](#) · [Pandas](#) · [Seaborn](#) · [Spark](#)

Construction Supervisor (Intern)

AECOM · Moscow · Construction

Jul 2021 — Oct 2021 · 4 months

- Spent the summer on active construction sites — gathering field data, producing progress reports and visual updates, and seeing first-hand where communication between office and site breaks down
- Kept project documentation current as the work progressed — which is where I started thinking about how much of this coordination could be automated

Technologies: [AutoCAD](#) · [Revit](#) · [Excel](#)

Flagship project

Construction Management Platform

An ecosystem for running a construction business end-to-end

A modular platform that unites everyday management tools and AI assistants, so a construction business can plan work, coordinate people, and enforce process discipline without stitching together a dozen separate services.

Services: Maintenance · Meeting Notetaker · AI Visualizer · Training · Prompt Studio · Contracts · Notifications · Messenger · Speech Recognition · Digital Foreman · Reviewer · Consultant · Smart Pass

Stack: [React 18](#) · [TypeScript](#) · [Tailwind CSS](#) · [Vite](#) · [React Query](#) · [Python 3.12](#) · [FastAPI](#) · [SQLAlchemy 2.x](#) · [Alembic](#) · [PostgreSQL 16](#) · [Redis 7](#) · [JWT](#) · [Docker](#) · [Nginx](#) · [Traefik](#) · [GitLab CI](#)

[Open project →](#)

Other projects

Crypto Market Data Lab

Data, news, and AI for crypto markets — in one pipeline

Every minute, it catches news from 120 sources and tracks Bitcoin's pulse. AI parses each news item and fuses it with a market snapshot at publication time. The result — a node in graph-vector memory, linked to similar and neighboring events. Search works by meaning and by connections.

[n8n](#) · [Python](#) · [JavaScript](#) · [PostgreSQL 16](#) · [Redis](#) · [Qdrant](#) · [LightRAG](#) · [OpenAI API](#)

[Read more →](#)

Education

Self-education: AI engineering

From Python fundamentals to AI systems in production

- Foundations: Python, SQL, data analysis (pandas, seaborn, statistics)
- Machine learning: scikit-learn, LightGBM
- Backend: FastAPI, n8n
- Databases: PostgreSQL, Redis, Qdrant
- LLM engineering: RAG/GraphRAG, Structured Output, Prompt Engineering, Agent Hooks
- Infrastructure: VPS, Docker, GitLab

6 years · Udemy · Coursera · University of London · Technical University of Denmark · Kaggle

Moscow State University of Civil Engineering

MSc, Civil Engineering — specialization in nuclear power plant construction

Structural design, building engineering systems, construction codes. Graduation thesis on the construction of nuclear power plant facilities.

6 years · GPA 4.5 · Moscow · Russia

University of Maribor

Business-case summer school

International teams, real business challenges — the first time I had to defend a technical recommendation in a room mixing countries and disciplines.

1 month · Maribor · Slovenia

Work and Travel

English-immersion and cultural-exchange program

Worked at an American company in the Bay Area — daily English practice in both professional and everyday settings.

8 months · USA, San Francisco