

# GLEB LUKYANOV

R&D Engineer / Engineering Lead (GenAI/LLM)

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## EXECUTIVE SUMMARY

*R&D Engineering Lead bridging the gap between **low-level hardware & embedded systems** (ESP32/C++/Optimization) and **high-level autonomous AI pipelines**. Combines deep technical expertise with a **Product-First mindset**, ensuring that engineering efforts directly serve business goals. Proven ability to architect and ship scalable products from scratch, transforming complex requirements into market-ready solutions.*

## PROFESSIONAL EXPERIENCE

### CEO / Head of AI & R&D | Avitrage

2023 - Present

Leading the technical roadmap for Emaki, a proprietary GenAI engine for automated corporate training. Directing the development of multi-agent systems and full-cycle content generation pipelines (NLP, Image, Video) for enterprise deployments.

- Engineered 'Emaki', a multi-agent GenAI architecture integrating GPT-4, Gemini, and DeepSeek to **autonomously generate interactive training simulators** (Text-to-Game).
- Scaled B2B adoption to **5+ enterprise clients** across various sectors, driving product expansion beyond initial prototypes.
- Orchestrated complex LLM workflows to automate instructional design, producing hyper-local content that **outperformed generic LLM outputs** in blind user tests.



### PROJECT HUB: Emaki Engine

Product Presentation & Demo Landing

[landing.avitrage.com/demo](https://landing.avitrage.com/demo)

## INDEPENDENT R&D PROJECTS

### Systems Architect & Prototyping Engineer | Independent R&D

2026 - Present

Delivering specialized technical consulting and rapid prototyping services, focusing on high-performance constraints-based engineering across cloud AI and embedded edge systems.

- Architected "The 3-Hour Factory": A fully autonomous content engine that analyzes competitor metrics to predict viral topics, orchestrates a "Deep Screenwriting" engine to generate narrative scripts, and automates the rendering and publishing of both Long-form videos and Shorts to YouTube.
- Engineered a highly optimized C++ control model for ESP32 robotics, successfully executing complex floating-point logic within strict 520KB SRAM constraints.
- Executed full-stack hardware engineering: **Design for Manufacturing (DFM) analysis** for multi-axis CNC & 3D printing, enclosure sourcing, circuit design & manual soldering, and full firmware integration.



### DEMO CHANNEL: 3-Hour Factory

Autonomous Generation Showcase & Case Study

[youtube.com/@pipelinetestsdeep](https://youtube.com/@pipelinetestsdeep)

## INTERACTIVE CV



### WATCH FULL STORY

Video Series Playlist (4 Episodes)

[youtube.com/playlist...](https://youtube.com/playlist...)

### EPISODE SELECTOR



01  
Intro



02  
Factory



03  
Code



04  
Research

## KEY COMPETENCIES

### CORE STACK

TypeScript, Python, React, Kotlin, C++, C, Bash

### GENAI & AGENTS

Google Vertex AI (LLM, Vision, Video, TTS/STT), OpenAI API & RAG, JSON Schema & Structured Output, Agentic Workflows & Orchestration

### PROTOTYPING & SYSTEMS

Embedded Systems (RTOS), Video Processing Pipelines, Memory & Perf Optimization, System Architecture, MVP & PoC Delivery

## EDUCATION

### 42 France

Software Engineering (Architect)

2021 - 2024

Intensive peer-to-peer coding methodology. Focus on **low-level algorithms**, C/C++, Unix architecture.

### Moscow City Pedagogical University

Bachelor of Special Education (Defectology)

2018 - March 2022

Semi-medical specialization focused on the education of persons with developmental disabilities (clinical defectology) and neurodevelopmental correction.

Transformed a standard B2G procurement business into a tech-enabled platform, leading to acquisition.

- Developed a proprietary automated onboarding system for B2G procurement agents, **reducing time-to-productivity from 3 months to 1.5 weeks** (8x acceleration).
- Enabled a low-cost workforce strategy by validating zero-experience hires who generated revenue during the training phase.
- Bootstrapped company to high-margin profitability.
- Orchestrated a successful exit (acquisition) primarily driven by the value of the custom automation software.

**Founder** | *Treceeventas*

2018 - 2019

Founded and operated on-site retail facilities, focusing on strategic location scouting and regulatory arbitrage.

- Identified and leveraged a dormant legislative clause to secure exclusive retail permits in restricted high-traffic zones, bypassing standard competition.
- Achieved high-margin organic traffic through strategic location acquisition ('regulatory hacking'), resulting in a **5x-10x ROI upon business exit**.
- Negotiated official permits with city authorities in two major cities, resolving regulatory bottlenecks.

**Co-Founder** | *CCariba*

2017 - 2018

Co-founded a confectionery brand, managing FMCG product design, manufacturing logistics, and small-batch production (Chocolate/Coffee).

- Managed the full product lifecycle from concept to small-batch production and packaging.
- Directed supply chain logistics and vendor relationships, resolving regulatory and quality assurance challenges.
- Designed product branding and packaging solutions, executing rapid iteration cycles based on consumer feedback.

**Founder** | *FTShop*

2010 - 2012

DTC retail startup management.

- Founded and managed a niche retail business.