

## **Development Factory patent and its BASE prototype implementation**

***We offer a platform and services to move your work to the conversational AI world.***

Development Factory is a System with conversational approach to AI for development, manufacturing, and marketing products and services. Also, for personalized educational development.

The patent has 14 claims describing processing components and methods of their interaction.

I will talk about development part, although in several claims the system adds manufacturing and marketing components.

You know that development is a process with many steps, often many teams.

Business folks clarify business goals, architects provide tech plans, and technicians work on technical details.

In the process people converse to better understand each other.

The process takes weeks, months and sometimes years.

The development factory system cuts this time to minutes.

The system will initiate a conversation working as a set of smart and knowledgeable partners, AI agents that represent development layers helping to navigate between these layers and retrieve all necessary details from private corporate data, and from public data, and when necessary, the system gets back to a subject matter expert with a question.

How this is done? The system includes conversation mechanisms and a set of graph processing units, AI agents that work with semantic models. Why graph? Because this is an optimal presentation for data and models. This is why in my patent I provided example of implementation with NVIDIA graph chips. At that time NVIDIA only used in the games and crypto-processors. I wrote an article, called "US versus China in AI", clearly showing that our best advantage in AI was in NVIDIA potential to process semantic data.

Now we talk about GPT by OpenAI, Gemini by Google, AI tools by Meta and by Elan Musk. They compete in delivering big semantic models capable of understanding natural language. We do not compete in this field. We use them just as tools to create enterprise products on the top of these tools. I developed a highly customizable platform, called BASE. And we offer our service to connect to enterprise data, customize the system to work on specific tasks in their specific business knowledge domain. We can connect specific business models with Large Language Models (LLM) of these tools.

Examples: In the patent - creating a flying car, where AI agents - semantic processing systems are connected to the data in 3 knowledge domains: building cars, planes, and FAA regulations.

Another example is in education: a personal tutor for each student, adapting to learning differences. As a trainer and a teacher, I know first-hand that our current educational system focuses on average students leaving some behind and making some extremely bored. I wrote several articles on the subject, like Fixing Education, The Message from 2040, and more.

I founded ITU / AITU online school, where I use some AI components.

Another example is helping in a complex law case. I can imagine that a senior partner would ask an associate for a search in a specific direction. After a day or two the associate comes back with some suggestions. A senior partner would say that this is not a solution but it gives a new idea. And he will send the associate for another search. Our development factory will be connected to law data, which are not available for a public, but available to the law firm. And our AI agents will work with a senior partner as AI agent - consultants, smart, knowledgeable, and extremely fast.

Our niche is working with corporate clients, providing subscriptions or internal installations of the BASE, connecting to corporate data, which enterprise does not want to share with public.

We offer the service to add AI components for specific most profitable tasks.

Back to the patent: you do not see many patents in this field. Why? Because models and algorithms or ideas are not patentable, but the system is.

References:

<https://aitu.us> – Internet / AI Technology University

<https://itofthefuture.com> – Semantic architecture

<https://aitu.us/askcsds.jsp> – Ask Conversational Semantic Decision Support

<https://FixingEducation.us> – Personal Tutor understanding learning differences for every student

<https://itofthefuture.com/book/message.pdf> - The message from 2040

<https://aitu/itu/ChatGptAboutDevelopmentFactoryPatent.pdf> - ChatGPT about the patent

<https://patents.justia.com/inventor/yefim-zhuk> - Yefim Zhuk Patents (including “Development Factory”)