



APPLY

Computer Vision delivery center

AI technology driven company with
more than 10 years of experience.

We develop custom Artificial Intelligence
and Computer Vision solutions.

Successfully implemented more than 50 AI and
Computer Vision projects in different industries
and production companies.

Our solutions bring Business Value to our customers!

Our solutions have proven themselves in such industries as:



METAL PROCESSING

We determine the compliance of product characteristics, shapes, sizes with the benchmark or CAD project model; compliance, cleanliness of molds; compliance of raw materials; control of compliance with production processes.



AUTOMATION OF PRODUCTION EQUIPMENT AND RANDOM BIN-PICKING

Leading robotic hands operations on conveyor in integration with ABB robotic hand, task - random bin picking of shape changing object- fish. Relocation of objects, recognition of top object in a pale.



PACKAGE DEPOSIT SYSTEM

Computer vision algorithms are trained to recognize a wide range of packages, from plastic bottles to cardboard cups, in any degree of deformation.



MICROBIOLOGICAL TESTING IN THE PRODUCTION OF DAIRY PRODUCTS

By creating an automated light microscopy system, we perform rapid detection of yeast and mold cells in water and dairy samples.



PRODUCTION OF GLASS CONTAINERS

We find even the smallest defects - glass scratches, cracks, black dots, neck defects, dirt, etc.



PRODUCTION OF BEVERAGES

We check the quality of the glass container, cork defects, filling level, compliance of the label with the drink, etc.



LAUNDRY

We find stains, damages, and other defects in clean laundry.



EGG PRODUCTION

We check the shape and cleanliness of whole eggs, Raw egg yolk purity and egg white viscosity. Using this information, bird feeding processes are improved.



EXAMPLE OF MASS PRODUCTION - PRODUCTION OF PLASTIC PELLETS

We determine the quality of large-volume products immediately after their production. We process visual information of up to **800 units per second**. The information makes it possible to optimize the settings of the production equipment to achieve an optimal level of quality.



APPLY OCR - PROCESSING OF PRINTED DOCUMENTS FOR MUNICIPALITIES, ACCOUNTING, BANKING, INSURANCE SERVICES

Apply OCR system recognizes the data of receipts, waybills, and other documents. In accordance to a certain form, the information is sent to an existing accounting or other computer system and is processed.



SMART CITY - ROAD MONITORING, CAR NUMBER PLATE RECOGNITION, RECOGNITION OF FREE PARKING SPACES

The Apply system monitors the road area, recognizes, and records various flow participants, their license plates, and reports suspicious behavior. The information on free parking spaces is passed on to provide the city service.



TIMBER TRADE, ETC.

With the help of computer vision, we determine the volume of timber from the photo of the load of logs, create an automatic loading document, which is checked by the operator before registration. Increase of 75% in product shipment speed.

We create individual computer vision solutions that meet exact customer needs:

- We develop precise, automated, uncompromising **visual quality control systems**.
- **Acquisition of digital data** on product characteristics and production processes - **the first step of the Production Digitization process**.
- Learning, adapting, and implementing **Industry 4.0 methods** in production plants.
- We create **automation and modernization** solutions for production processes.
- We develop complex internal computer systems of companies – **OCR, ERP, CRM**.
- We supply **intelligent components** to manufacturers and integrators of robotics and industrial automation equipment.

Our solutions stand out for their high accuracy and high performance.

We take care of every aspect of the solution development process:

- We analyze, dig into the issue and develop the necessary **technical solution** for each task.
- We search for optimal **technical components** (cameras, optics, servers, lights).
- We find the most optimal **ways of installation** on existing production equipment.
- We create **user-friendly, intuitive** management tools for created solutions.
- We create **automatic reports** in the form of convenient descriptions of defects and photo fixation.

Our deep knowledge and experience in AI and Computer Vision technologies enable us to solve a wide variety of tasks.



Obtaining digital data about the product - the first step in the implementation of Industry 4.0 standards.

Often, AI and Computer Vision solutions are the only way to obtain fast and accurate digital data about product characteristics and their changes over time, as a reference point for future decisions.

- ✓ If the data on the characteristics of your product are not digital or do not exist at all - we can solve it!
- ✓ Upgrade of existing production equipment with AI and Computer Vision solutions and additional elements (like robotic arms) for their modernization and increasing production volumes and quality.
- ✓ Local integration of modern solutions in existing production lines for their modernization, without large investments in new production equipment.

Quality control!

Accurate, fast obtaining and analysis of the characteristics of products according to certain criteria! Also, large volumes!

- ✓ We **find defects** according to precisely defined and constant visual criteria. If necessary, we determine even microscopic deviations from the benchmark.
- ✓ We analyze the quality, accurately determine the product **quality level** and deviations from the optimal quality level.
- ✓ We obtain precise **digital information** about the characteristics of the manufactured products.
- ✓ We are also able to check the quality of the **incoming raw materials** and their compliance with the production process before significant losses are caused to your company.
- ✓ High operating speed (we analyze the quality of up to **800 units per second** and that is not the limit)

Automation of processes and equipment!

A wide variety of business processes that consume employees' time can be optimized and bring significant benefits to the company.

- ✓ Automatic calculation of production and cargo volumes. Increase of at least 75% in product shipment speed.
- ✓ OCR text recognition of printed documents. Speeds up the processing of checks and other documents up to 3 times.
- ✓ Modernization of conveyor – Leading robotic hands operations on conveyor and random bin picking.
- ✓ Monitoring urban environment and road plane by analyzing video feed from cameras.

Contact Apply and receive a **free strategy session** on how Artificial Intelligence and Computer Vision solutions can improve your company's production or document processing processes.