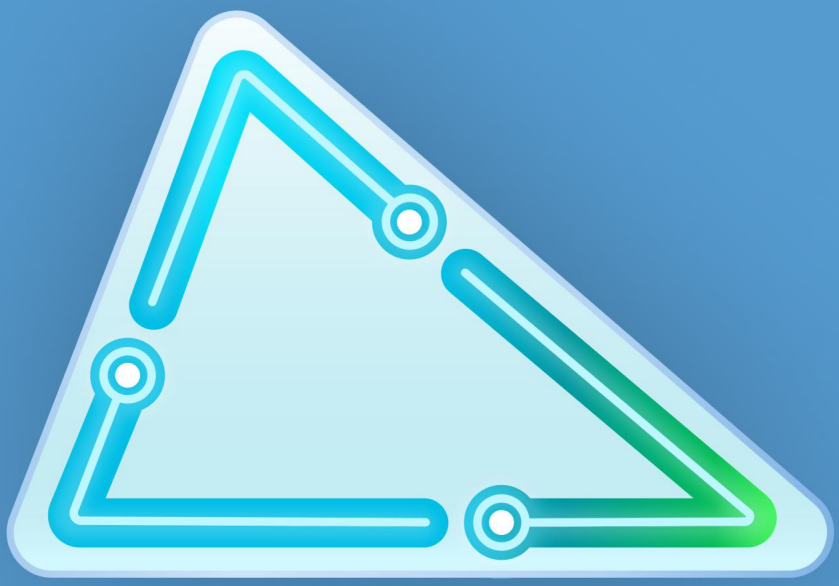


ALPITYPE

Your Expert Team

Anton Lytvynenko

CEO of AlpiType

Anton is an experienced software development expert with over 10 years of industry experience. He has successfully led and delivered innovative projects across various sectors, including aviation, construction, healthcare, and manufacturing. His focus is clear: understanding clients' individual challenges and delivering tailored solutions.

Liudmyla Kravets

Head of Customer Success at AlpiType

Liudmyla is an experienced specialist with over 6 years of expertise in building and scaling customer service structures, developing long-term partnerships, and leading customer success teams. She specializes in developing customer-centric strategies, optimizing collaboration with key clients, and implementing processes to sustainably increase customer satisfaction and retention.

Dr. Dirk Liebhold

Software Architect and Qt Expert, Partner Advisor

Dirk holds a PhD in Mathematics and applies his expertise to designing and implementing complex software systems in a structured and scalable way. He relies on C++ and Qt to interface with machines, databases, and sensors, and to build service-to-service integrations. In close collaboration with AlpiType, several projects have already been successfully delivered with his support.

Anastasiia Kulinich

Head of Data Analytics at AlpiType

Anastasiia is an experienced data analytics expert and, as Head of Data Analytics, is responsible for developing data-driven strategies and building scalable analytics processes. She has extensive experience in interpreting complex data, creating meaningful dashboards, and deriving well-founded recommendations for action across various business areas.

Dr. Oleksandr Lytvynenko

Advisor for AI and Computer Vision

Oleksandr is an expert in computer vision, image processing, and artificial intelligence (AI) with over 25 years of experience in the IT industry. Holding a PhD in Applied Mathematics, he combines deep expertise in mathematics and technology. At AlpiType, he leverages his long-standing experience to strengthen AI and computer vision initiatives with innovative approaches and to develop new solutions.

Your Expert Team

Sergii Godlevskyi

Software Expert for AI/ML, Cloud & IIoT, Advisor

Sergii supports AlpiType as an advisor with his many years of expertise in artificial intelligence, machine learning, cloud architectures, and Industrial IoT. With over 20 years of experience in software development, system architecture, and data science, he advises the team on designing scalable, high-performance, and data-driven solutions and supports strategic technology decisions.

Lisa Nesterova

Head of Design & UI/UX bei AlpiType

At AlpiType, Lisa defines the design and UI/UX strategy across all products, optimizes digital touchpoints, and ensures that user experiences are clear, efficient, and visually compelling. With her structured approach, strong attention to detail, and deep understanding of user needs, she makes a significant contribution to product quality, user satisfaction, and the company's brand perception.

Dr. Leonid Lytvynenko

AI Expert, Advisor

Leonid is an expert in artificial intelligence (AI) with extensive experience in AI strategies and innovative AI solutions. Holding a PhD and an MBA, he combines technical expertise with entrepreneurial vision. Having served as CTO and later as CEO, he has successfully implemented numerous AI initiatives. At AlpiType, he contributes his deep expertise to strategically advance the AI domain and drive innovation.

Dr. Vikram Singh

Advisor for Computational Fluid Dynamics (CFD) and Big Data

Vikram is a PhD-level Big Data Software Engineer with a strong background in Computational Fluid Dynamics (CFD). His current focus is on data-intensive systems, leveraging deep expertise in scientific software and numerical modeling to simulate and analyze complex physical systems. In close collaboration with AlpiType, we have successfully delivered solutions in the area of simulation software.

Peter Balogh

Advisor for AI Governance, PMO & Transformation

Peter is an internationally experienced expert in AI governance and transformation with over 25 years of leadership and execution experience as Head of PMO and IT Director in highly regulated industries such as banking, fintech, and automotive. His focus is on structured governance and control.

Partner Team for AI Funding Programs

Nils Söder
Product Manager

As a Product Manager at Kutzschbach INNOVATIONS, he bridges the gap between IT security and artificial intelligence. He supports our projects with valuable expertise in funding applications such as Digitalbonus Bayern and, as a board member of Enactus Augsburg, brings a strong passion for social entrepreneurship.

With his positive “Per Aspera ad Astra” mindset, he ensures that innovative visions are turned into strong, shared successes.

Florian Ludwig
Partner Manager

As a Partner Manager at Kutzschbach INNOVATIONS, he supports companies in successfully implementing AI solutions in a secure and sovereign manner, with a strong focus on Responsible AI.

With his broad background ranging from Sinology to data science, he excels at transforming technological innovations—such as intelligent email automation—into tangible, practical value.

Trending:

Expert Exchange & AI Talks

Portfolio

Secure and Scalable Software Solutions for Defense-Critical Systems

A high-performance software solution developed to extend existing applications as well as to build new systems from the ground up — while strictly meeting high requirements for scalability, efficiency, and security.

The solutions were specifically tailored to the needs of a military environment and meet the highest standards in terms of performance, stability, and code quality.

By introducing agile development methodologies (Scrum), development processes were optimized, interdisciplinary collaboration was strengthened, and team productivity was sustainably increased.

As a result, several robust and secure software solutions were created that have been explicitly praised by customers and end users for their performance and quality, forming the foundation for a successful long-term partnership.

Company, Industry: Rheinmetall AG, Defense

Cloud-Based Predictive Maintenance & Anomaly Detection in Textile Production

A cloud solution for predictive maintenance in textile manufacturing, developed to reduce downtime and increase operational efficiency.

Machine data from the factory was continuously collected in near real time, enabling early detection of anomalies in complex mechanical systems.

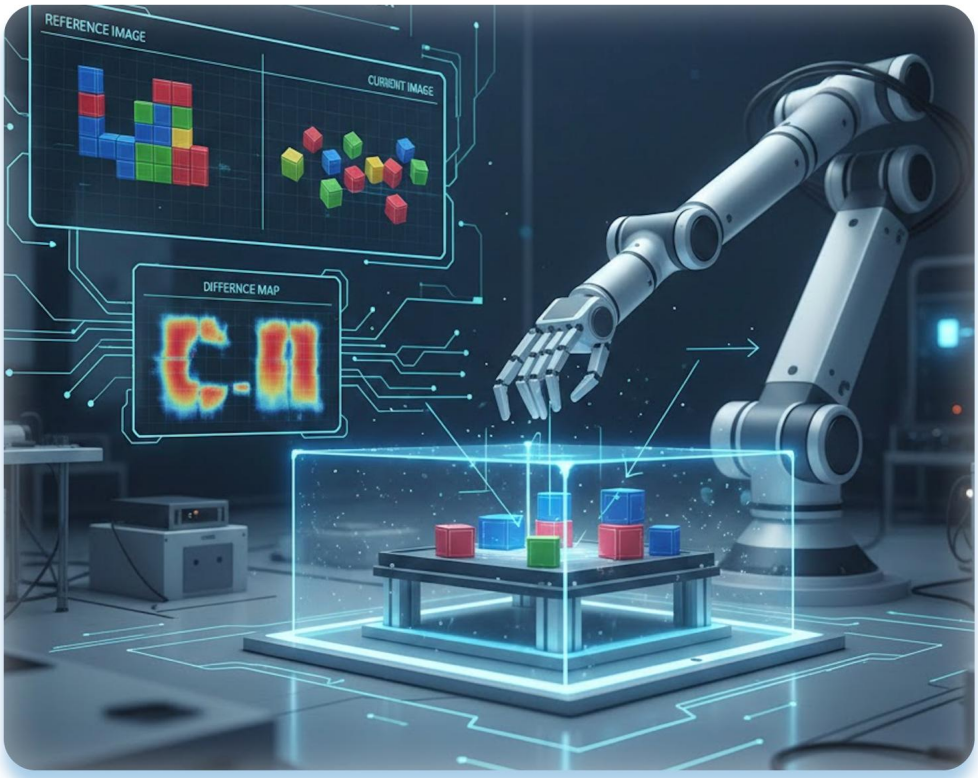
By analyzing deviations in performance behavior, the system was able to quickly and accurately localize emerging defects.

The platform also supported the dynamic adaptation of data collection to new shift structures, enabling more precise financial reporting.

In addition, it enabled the quantification of daily yarn production, thereby supporting a production-based pricing model.

Company, Industry: SAURER, Mechanical Engineering

Vision-Based Action Planning for Image-Based State Correction



This project focused on the development and simulation of a vision-based system for controlling automated actions, with the goal of incrementally adjusting a visual scene toward a desired target state.

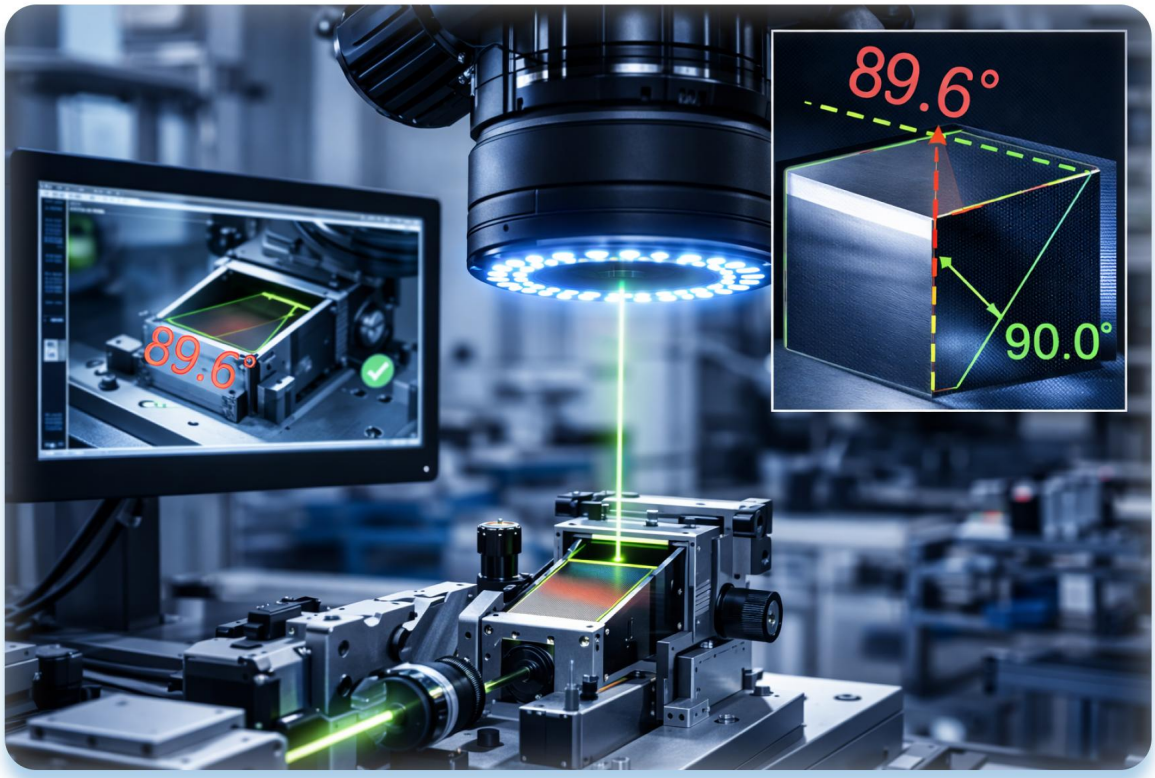
By analyzing the difference between the current image and a reference image, the system computed a sequence of corrective robotic actions to minimize visual deviations.

The entire solution was developed following a “simulation-first” approach, enabling independent development without the need for physical hardware.

Image processing was used both for error quantification and action planning, allowing for rapid development and flexible integration in a hardware-agnostic environment.

Company, Industry: NDA, Robotics / Manufacturing

Visual Detection of Mechanical Misalignments in Optical Devices



A computer vision–based system for detecting subtle mechanical misalignments in interferometers, such as component angle deviations (e.g., 89.6° instead of 90°).

The solution was based on understanding how image data changes depending on different assembly configurations and integrating this correlation into the measurement chain—enabling the system to assess overall assembly quality.

Company, Industry: SUMIX, Microscopes / Manufacturing

Defect Detection in Interferometers Using Supervised Regression-Based Machine Learning

This project focused on developing a machine learning solution for detecting and quantifying defects using specialized microscopic equipment.

A supervised regression approach was applied, with the training dataset generated automatically by combining ideal images with synthetically added defects.

The system reliably identified defective areas and precisely calculated their sizes, with a strong emphasis on repeatable and consistent computations.

Company, Industry: SUMIX, Microscopes / Manufacturing

Cloud-Based Fleet Intelligence System for Railway Networks

A near real-time cloud solution developed for fleet managers in rail transportation, enabling rapid response to faults within urban railway networks.

The system continuously captured and analyzed train performance data and generated actionable alerts based on fault indicators.

It supported fast, well-informed decisions for route planning and emergency operations.

The solution was designed to process large volumes of data and provide a clear overview of operational status.

As a result, it increased the responsiveness and reliability of daily operations through real-time control of routing and fleet condition.

Company, Industry: Siemens, Industrial Automation

Cloud-Based Training Platform for Pilot Training

A state-of-the-art, cloud-based training platform developed to support digital pilot training and the efficient management of training content and user information.

The solution enables secure progress tracking, reliable authentication, and seamless access to training materials while meeting the highest requirements for security and scalability.

By implementing a stable and high-performance server backend architecture, the platform was able to scale flexibly with a growing number of users and ensure sustainable, reliable operations.

The result was a robust and scalable solution that enabled the company to achieve key milestones, successfully present the platform at a trade fair, and acquire new customers.

Company, Industry: Reiser Simulation and Training GmbH, Aviation

Scalable Software Platform for Modern Surveying Systems

A powerful software platform developed for seamless synchronization of measurement and project data across devices, the cloud, and office workstations.

The internal SDK for data persistence ensures consistent data flows and stable operations across the entire product range.

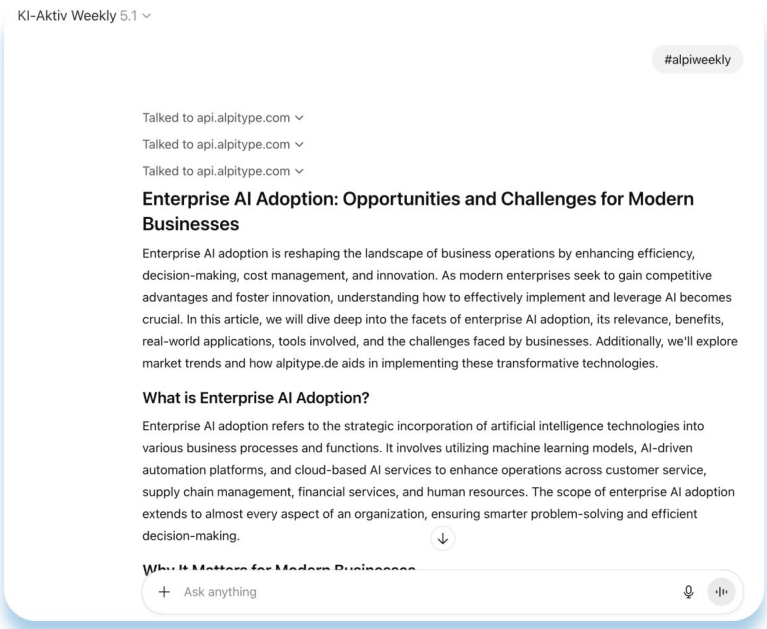
Through the plugin-based core framework, development processes were significantly optimized, costs reduced, and product launches accelerated, enabling an efficient and sustainable expansion of the product portfolio.

The result is a scalable, future-ready software solution that strengthens the company's innovation capabilities and provides professional users worldwide with reliable, precise, and optimally connected surveying systems.

Company, Industry: Leica Geosystems AG, Construction

Proprietary Product Solutions

Cloud-Based Marketing Intelligence Solution Powered by ChatGPT



A cloud-based, in-house solution developed for the efficient creation and planning of marketing content.

The AI assistant enables clients to generate tailored content within seconds using the hashtag #alpiweekly—content that previously often required hours of research and formulation.

The platform supports rapid creation of LinkedIn posts, marketing texts, trend analyses, and industry-specific insights, and is extensively used both internally and by clients across various sectors. It serves as a flexible tool for spontaneous posts, current news and trends, or individual communication needs, ensuring users can access relevant and up-to-date information.

This system significantly boosts overall marketing efficiency, enables faster content production, and helps users consistently publish high-quality posts — a key contribution to visibility, competitiveness, and sustainable growth.

Company, Industry: AlpiType, Marketing

Virtual Try-On for Digital Fashion Experiences

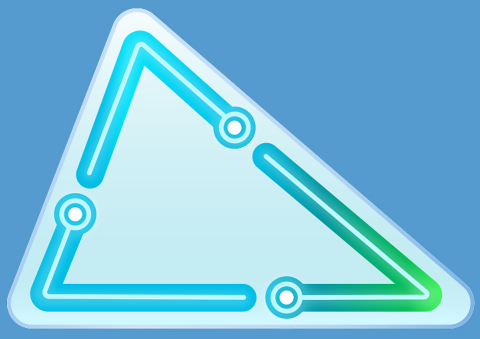
An innovative software solution for creating accurate digital clothing representations, developed to enhance the online shopping experience through virtual try-ons on human avatars.

The platform allows users to visualize garments realistically on digital human avatars and combine virtual outfits, enabling more informed and confident purchase decisions.

By leveraging advanced technologies, the solution successfully meets complex requirements for realism, physical accuracy, and scalability.

The result is a forward-looking platform that has attracted attention in the virtual fashion industry and highlights the potential of digital fashion and avatar-based platforms with human avatars.

Company, Industry: AlpiType, Virtual Fashion / Virtual Try-On



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MASTERING TECHNOLOGY

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Best regards,
The AlpiType Team

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