

3D PRODUCT VISUALIZATION WITH REAL-TIME INTERACTION







Supporting the Value Chain with High-End
3D Product Visualization Software



Mastery in
Software
Engineering



Key Facts

-  Industry: Automotive
-  Team Size: 11+ People
-  Duration: 6+ Years (ongoing)
-  Technologies:
 - C++,
 - Qt,
 - Teamcenter
-  Services:
 - Software Architecture,
 - Software Development,
 - Software Testing
-  Trends: 3D Visualisation

Highlights

- A high-end solution that enables 3D product simulation with real-time interaction.
- The software empowers global manufacturers to create virtual products in lifelike quality, from design to marketing and sales.
- Fortech has been the technology partner in product development for more than 6 years.



Solution

Desktop application based on real-time 3D visualization technology that enables the digital simulation of a product, such as a car or an aircraft.

It features an advanced product presentation module that can simulate various design alternatives, based on an exhaustive set of product features. It can also simulate the actual human experience with the product by checking ergonomic characteristics of the design through motion tests and human proportion visualization within the digital prototype.

Used by automotive leaders, the software is a high-end tool that optimizes their value chain, from the design phase all the way through to the market.

It offers designers and engineers an exhaustive product experience, facilitating the decision-making process and reducing prototyping costs.

It also enables the production of compelling marketing and sales assets, helping companies reach diverse markets fast and increase sales volumes across channels and territories.

Collaboration

Our client is a producer of innovative software solutions for professional 3D visualization in real-time. Their unique suite of applications enables global manufacturers to leverage a comprehensive digital product experience throughout the complete product lifecycle, from conception and development to marketing and sales.

As a nearshore software development partner, we implemented several modules and plugins for the application, including:

- a module for conferencing that enables the real-time visualization of a product worldwide and the reproduction of tasks from a machine to all connected systems;
- a module for the taxonomy of vehicle parts, so that these can be automatically accessed from the database when simulating a car configuration;
- a module that scans the end user's system to check compatibility with future upgrades of the application;
- the most recent direction in our collaboration was the development of a plugin which integrates the core product workflow with Teamcenter.

The integration with Teamcenter transformed the solution into an enterprise-ready, high-end visualization product, which overcomes the barriers between engineering and virtual reality.

Client Benefits



QUALITY:

Cutting edge rendering options for high-fidelity product visualization.



PERFORMANCE:

Accelerated data processing through batch automation.



INTEGRATION:

With Teamcenter and other industry relevant software.





ABOUT FORTECH

Fortech is a Romanian software development company headquartered in Cluj-Napoca. Employing more than 700 software engineers and growing, Fortech is one of the largest software outsourcing providers in the region, repeatedly included in Deloitte rankings of the fastest growing technology companies in Central and Eastern Europe.

Fortech provides full stack custom software development and software testing services, with focus on solutions for Automotive, Healthcare, eCommerce and the Internet of Things. Since 2003, two hundred clients chose Fortech as their software engineering partner, among which T-Systems, Swisscom, Symantec, Pfizer and Renault.

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