



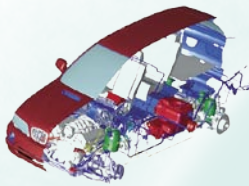
AUTOMOTIVE



„The wheel was man's greatest invention until he got behind it.“

Bill Ireland

Engineering software and service for fortune 500 companies.



COMPANY PROFILE

atech provides software and service for engineering process integration and data management. Our engineering and IT services encompass customer-specific engineering solutions in interlaced or distributed working environments for fortune 500 companies.

We are engaged in different domains: Automotive, Power Generation, Aerospace, Industrial Application and Turbomachinery. Our solution package incorporates software solutions, the analysis of engineering processes, project specification, system selection, consultancy, purchase, adaption, implementation down to maintenance and field service.

We support and inspire our customers in partial and complete projects either at our locations or at the customers site. The comprehensive experience of our highly-educated employees combined with the flexibility of our specific company structure allows to create a high added value in terms of quality, cost and time.

AUTOMOTIVE INDUSTRY EXPERTISE

Complex logistics and tight cost management characterize the automotive industry. The domain competence of atech in the Automotive industry covers state-of-the-art engineering and IT solutions including design, simulation and data management, as well as customization and automation of engineering systems.

Our services focus on:

1. parametric associative design,
2. analysis and optimization as well as system process integration, conceptual design,
3. feasibility studies, cost – benefit analysis,
4. analysis and automation of engineering processes.

Using the most advanced and approved engineering software technologies and concepts ensure the highest returns of performance, stability and reliability for our clients.

SOLUTION SPECTRUM

CAD

- parametric associative design
- free form surfaces and solids
- design automation
- data interfaces
- rapid prototyping
- parametric car body
- customization
- 3D printing
- drafting

FEM optimization

- structural analysis
- thermal analysis
- aerodynamic simulation
- durability, fatigue
- safety and reliability analysis, FTA

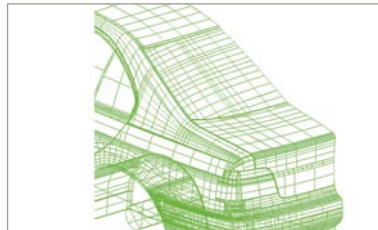
Instrumentation

- application/instrumentation control systems
- data acquisition, DSP, analysis, monitoring
- system integration

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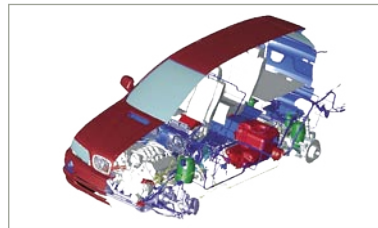
SAMPLE CASE STUDIES



rear part aerodynamic optimization



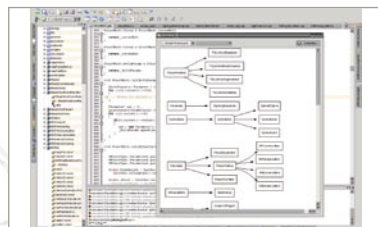
parametric freeform surface design



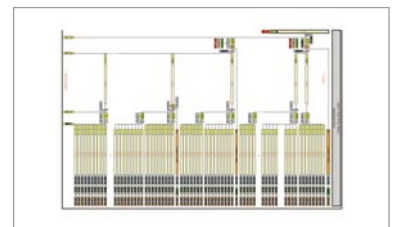
product data management support



exhaust system design



software engineering, test, quality management for electrics / electronic systems



fault tree analysis, FMECA

TOOLS

CAD

CATIA V5, ProEngineer, Unigraphics NX2/3/4, SolidWorks, Think3, AutoCAD

CFD

FLUENT, StarCD, Numeca, MISES, Flowmaster II

FEM

Abaqus, ANSYS, Nastran, I-DEAS, Patran, Matlab, Optimisation systems

S/W Development

C++, Qt, Pearl, Tcl/Tk, Java, PCL, EJB, CORBA/DCOM, EDI, XML, Oracle