

*„Flying may not be all plain sailing,
but the fun of it is worth the price.“*

Amelia Earhart

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.



AEROSPACE EXPERTISE

The competence of atech in Aerospace includes:

1. automation of Computer Aided (CA) design and engineering,
2. development and customization of software systems for engineering
3. system and process integration,
4. engineering services.

atech has extensive expertise in developing engineering software and service, cross platform applications, GUI to existing legacy applications and database front-ends. In particular atech does translate repetitive engineering needs of a customer into a software system, custom-tailored to accomplish these specific needs in an effective manner.

atech leaves you concentrate on your core business in order to remain efficient, flexible and hence profitable and help to use Information Technology to your advantage.



SOLUTION SPECTRUM

CAD parametric associative design
freeform surfaces and solids
design automation
drafting
data interfaces
customization of engineering systems

FEM optimization aerodynamic design:
wing, nacelle, high-lift-components
flutter, forced response, loads
safety and reliability analysis, FTA, FMECA
structural analysis
thermal analysis

Instrumentation application and instrumentation for control systems
digital signal processing DSP, analysis, monitoring
data acquisition and conversion
system integration

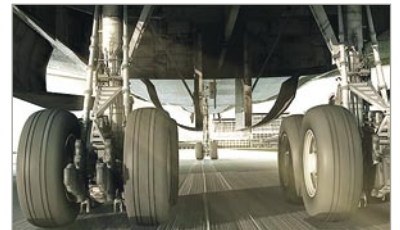
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SAMPLE CASE STUDIES



engineering support for aircraft engine development



engineering support for landing gear development



nacelle geometry design and aerodynamic optimisation



compressor blade design



multistage compressor design



rules based geometry design for multistage compressor



TOOLS

CAD

Unigraphics NX2/3/4, CATIA V5, ProEngineer, 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