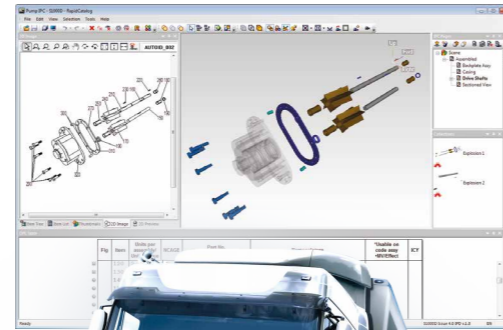


SIMULATION AND STRESS ANALISYS

- + Finite-element modeling
- + Weight optimization
- + Static, Dynamics, Linear and Non-linear analysis
- + Fatigue analysis
- + Virtual crash tests
- + Stress calculations automation
- + Metals, plastics and composite materials

DOCUMENTATION DEVELOPMENT

- + Interactive maintenance documentation creation
- + Implementation and support



CNC Programming

- + Process planning
- + Production tooling
- + Preprocessing
- + Postprocessing

Test capabilities

- + Material Properties evaluation
- + Structural elements tests
- + Stress analysis validation
- + Non-destructive inspection
- + Composite materials and structures tests
- + Calculation methodology validation

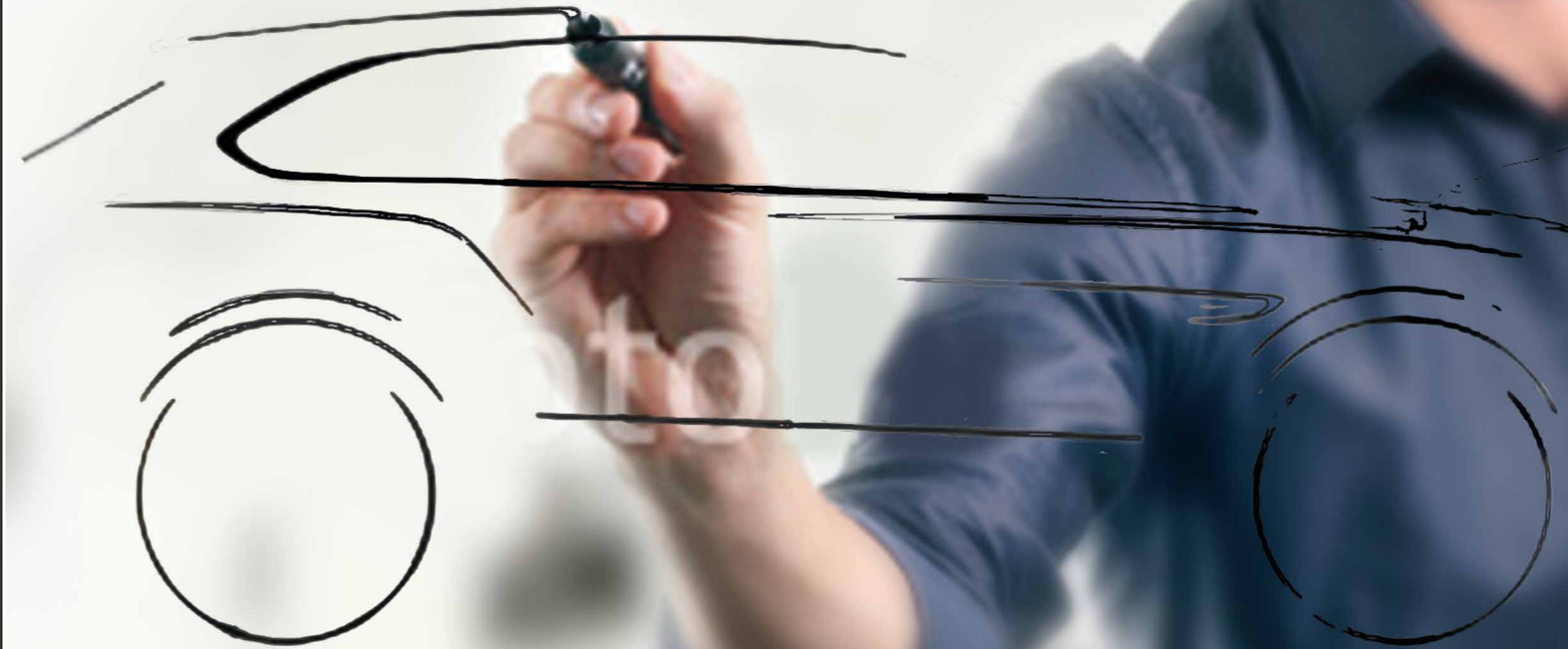
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INTEGRATED ENGINEERING SUPPORT FOR AUTOMOTIVE INDUSTRY

TUCANA ENGINEERING

is a global company providing engineering services to automotive, energy, aerospace and airport industries.

For more than 25 years, Tucana Engineering has supported multiple large-scale international engineering projects.

With its main offices in the USA and in France, Tucana Engineering develops worldwide projects through our engineering departments in Ukraine, Russia, Latvia and Armenia.

Tucana Engineering is committed to providing quality and cost efficient engineering support to our customers whatever the project or location.

Value proposition

We provide customers with engineering and consulting services for the automotive industry to support the entire life cycle. From idea to implementation, **Tucana Engineering** acts like a global supplier of solutions for businesses:

- + to reduce costs and time span to complete a project
- + to stabilize overloads
- + to integrate into client's value chain
- + to share the risks
- + to optimize project management to achieve the project goals

Tucana Engineering is the engineering long-term partner that constantly delivers measurable business value in changing conditions.

Product development

Tucana Engineering collaborates with customers for an integrated approach across design, redesign, modernization, optimization, localization of automotive products and manufacturing. **Tucana Engineering** brings turn-key solutions to the product creation process throughout its life cycle. With vast experience in aviation, Tucana Engineering provides interdisciplinary cross-industry product development to fulfill dynamic market needs.

CONCEPT DEVELOPMENT

- + Class A surfaces development
- + From a basic model to a diverse lineup
- + BIW design
- + Scanning and reverse engineering

BODY DEVELOPMENT

- + Chassis
- + Structure
- + Exterior
- + Interior
- + Lightweight design
- + 2D/3D-interfaces drawings
- + Dimensional chains calculation and tolerancing
- + Metals, plastics and composite materials

SYSTEMS LAYOUT DEVELOPMENT

- + Pneumatic
- + Hydraulic
- + Electric
- + HVAC

PREPRODUCTION AND POSTPRODUCTION SUPPORT:

- + Prototyping
- + Tests
- + Certification
- + Equipment development

