

OVERVIEW

Tucana Engineering is a global company providing engineering services to automotive, energy, aerospace and airport infrastructure industries. For more than 10 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 the engineering departments in Armenia, Latvia, Poland, Russia, and Ukraine. **Tucana Engineering** is committed to providing quality and cost efficient engineering support to our customers whatever the project or location.

Value Proposition

Tucana Engineering provides 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 helping businesses to:

- + Reduce costs and time span to complete a project
- + Stabilize overloads
- + Integrate into customer's value chain
- + Share the risks
- + Optimize project management to achieve project goals

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

Product Development

Tucana Engineering collaborates with customers for integrated approach across design, redesign, modernization, optimization, localization of automotive products and manufacturing.

Tucana brings turn-key solutions to the product creation process throughout its life cycle. With vast experience in aviation, **Tucana Engineering** provides interdisciplinary cross-industries product development to fulfill dynamic market needs.

DESIGN AND STYLING

- + Design ideas
- + Product conception and design
- + Visualisation (2D, 3D, Rapid prototyping)
- + Class A surfaces (concept to final design)
- + Scanning & reverse engineering
- + Visualization



PRODUCT DEVELOPMENT

- + Concept and series development
- + Lightweight design and optimization
- + Overall vehicle design
- + Vehicle body and openings
- + Exterior
- + Interior
- + 2D drawings

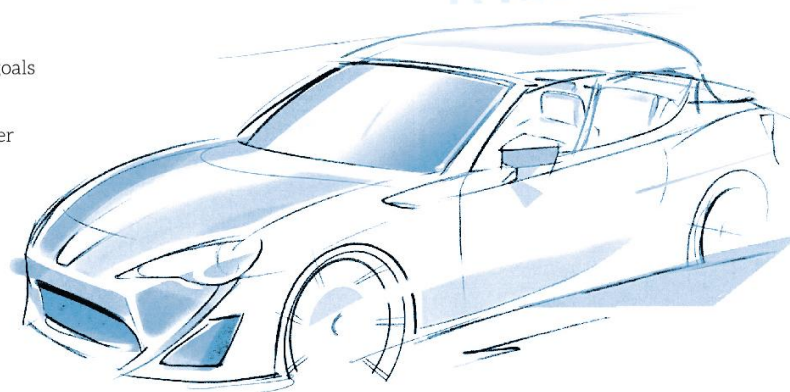
SYSTEMS LAYOUT DEVELOPMENT

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



PREPRODUCTION AND POSTPRODUCTION SUPPORT

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

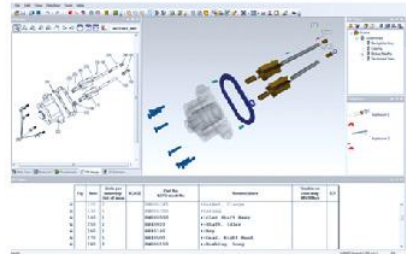


SIMULATION AND STRESS ANALYSIS

- + Finite-element modeling
- + Weight optimization
- + Static, dynamic, linear and non-linear analysis
- + Fatigue analysis
- + Virtual crash tests
- + Stress calculation automation
- + Metal, plastic and composite materials

DOCUMENTATION DEVELOPMENT

- + Interactive maintenance documentation creation
- + Implementation and support



CNC PROGRAMMING

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

TEST CAPABILITIES

- + Material property evaluation
- + Structural elements test
- + Stress analysis validation
- + Non-destructive inspection
- + Composite material and structure tests
- + Calculation methodology validation

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