

# S.R.S. ENGINEERING DESIGN

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## > Products

Data Handling / Entry Descent and Landing / Ground Facilities and  
GSE's / Payload / Platform / Robotics / Space Systems / Structures  
and Mechanisms / Thermal and Env. Control / TT&C

## > Processes

Assembly & Test / Design / Drafting / Miscellaneous / Modelling &  
Simulation / Services / SW/HW development

## > Other key sectors

Automotive & Transportation

# S.R.S. ENGINEERING DESIGN



## > More about S.R.S. ENGINEERING DESIGN

S.R.S. Engineering Design is a Small Enterprise with 35 employees specialized in the Computer-Aided Engineering and Design (CAE/CAD), with more than 30 years of experience in components and system design. The company core competences reside in "Virtual Prototyping and Testing" for automotive, aerospace and nuclear industry with parallel expertise in the field of software development for automation & control. Specifically, the S.R.S. Engineering Design Srl activities focus on:

- CFD analyses for internal and external flows;
- linear and non-linear static thermo-structural analyses;
- linear and non-linear dynamic analyses including simulation of crash and impacts;
- simulation of mechanisms (e.g.: car suspensions);
- modeling of the closed-loop between controls and structural behavior of systems.

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In partnership with Ferrari (industrial production and Formula 1), the company has developed methodologies for Virtual Testing, aiming at a significant reduction of development prototypes, resulting in an overall reduction of cost and schedule. This long-standing cooperation with industry has allowed S.R.S. Engineering Design to access a large experimental database used for correlation and validation of its Virtual Testing methodologies, with a specific focus on aluminum, steel, and composite systems and components. The company masters several software platforms in its field of expertise, including:

- Hyperworks e Patran for modeling and post-processing;
- Nastran, Abaqus, Radioss, Ls-Dyna, Ansys, Madymo for static, dynamic and impact structural analyses;
- Ansys EMAG for magnetic and electromagnetic simulation;
- Adams, Matlab, Simulink for multibody simulation (dynamic simulation of mechanisms);
- LMS Virtual Lab, NI Labview for the modeling of control systems;
- Fluent for fluid dynamic analyses;
- CATIA v5, Pro-E, SolidWorks for mechanical design.

In synthesis, the company has a consolidated background and expertise in modeling and analyses of multi-disciplinary problems involving complex load cases (Thermal, Structural, CFD, EM) as typical of space systems. This capability can be useful to support the complete life cycle of a product, from technology development to the operational phase.

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