

Launchers  
 Ground segments  
 Balloons  
 Transversal competencies



The SAS RTIME company is specialized in flight hw&sw instrumentation, small and large software development for aerospace applications, unique modeling methods and simulation tools for inflatable structures. The company is a small and responsive structure with a tailored work answering specialized client's requirements. Our priority is the work quality we offer.

## COMPETENCIES & CAPABILITIES

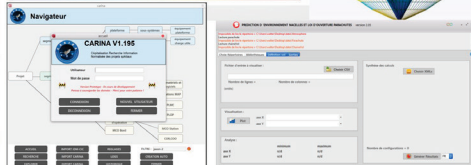
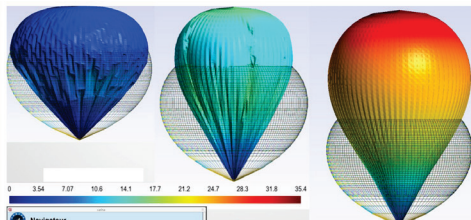
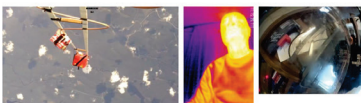
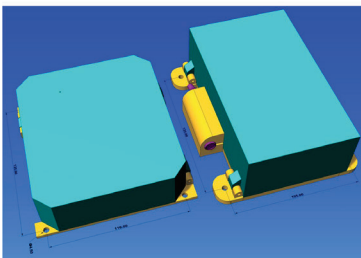
Flight hardware developments: designing, manufacturing, electronic developments of specialized sensors with emphasis on optical devices.  
 Instrumentation software development: complete advanced software for ground command control and data processing, onboard firmware development.

Software developments for space rockets telemetry. State of the art high performance video processing for space rockets.

Software developments for large multiplatform databases.

State of the art thermo-optical-fluid modeling applications for earth and extraplanetary missions.

Modeling and calculation of inflatable structures.



# RTIME

## PRODUCTS & SERVICES

The SAS RTIME company manufactures a complete autonomous flight instrument used by major space companies. It is qualified for very long duration stratospheric environments and can also be remotely connected. Launched from many sites: Canada, Sweden, Australia. Onboard, air and ground surveillance for long missions.

Several key software delivered and used for space rocket applications (Ariane, Vega, Soyuz) using various programming languages. Emphasis on telemetry as well as video processing.

Many customized software developed according to unique client's needs: large database and large data set processing, flight modeling, state of the art physical modeling for coupled systems with thermal analysis, optical ray tracing and fluid modeling.

Development of software dedicated to the calculation of stratospheric balloons using the dynamic relaxation method. Simulation of structures with material, geometrical and loading and local buckling phenomena characterized by the appearance of wrinkles.

## MAJOR SPACE PROJECTS & REFERENCES

The SAS RTIME company is proud to participate and collaborate on key projects for:

- the French space agency CNES,
- the Thales Alenia space company,
- the CS company.

Tight links with French research laboratories such as the Univ. Bretagne Sud.

## POINT OF CONTACT

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**TURNOVER** 0.15 M€

**WORK FORCE** 2

**SPACE TURNOVER** 0.10 M€

**SPACE WORK FORCE** 2