



About

Nautilus is an Italian space company specializing in satellite flight dynamics and attitude dynamics, with expertise in mission design, navigation, orbit determination, guidance and spacecraft operations. With a strong focus on lunar and deep-space missions, Nautilus has unique operational heritage in deep-space navigation, alongside expertise in complex LEO scenarios, including constellations and in-orbit servicing.

Founded in 2021 by researchers and professors from the University of Bologna and Politecnico di Milano, Nautilus has served as Prime Contractor on ESA and ASI projects, developing innovative solutions for current and future space missions.

27
TEAM MEMBERS

+50%
OF OUR TEAM
HOLDS A PhD

10+
SPACE MISSIONS ACROSS INSTITUTIONAL
AND COMMERCIAL PROGRAMS

2
OFFICES - FORLÌ & MILAN

Products & Services

- Mission Analysis & Design – mission requirements, feasibility, technical budgets, trade-offs, trajectory and orbit design.
- Ground-Based Navigation Services – orbit determination, radiometric & optical navigation, tracking and operational support.
- Conjunction Assessment & Collision Avoidance – conjunction monitoring, collision risk assessment and manoeuvre design.
- ADCS Design & Software Implementation – attitude determination & control, algorithms and flight software.
- Onboard Autonomous Navigation & Guidance – autonomous navigation, orbit determination, guidance and manoeuvre planning, including EON.
- Ground Flight Dynamics Software – mission analysis, orbit determination, manoeuvre planning and spacecraft operations through NEMO.
- CubeSat ADCS Test Bed – Helmholtz cage, Sun simulator and air-bearing platform for ADCS validation and HIL testing.
- Machine Learning for Space Applications – ML solutions for navigation, autonomy, data processing and space applications.

Main Markets

- Europe

References

- AGENZIA SPAZIALE ITALIANA
- EUROPEAN SPACE AGENCY
- POLITECNICO DI MILANO
- UNIVERSITA DI BOLOGNA
- ESA BIC MILANO
- SPACE FOUNDERS
- Q STATION
- INTEA SAN PAOLO UP2STARS

Contacts

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Space

Aviation

