

NEWSPACE MARKET · COMPANY PROFILE



Sim Dot Space

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3

PRODUCTS

5

SERVICES

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as of 20 August 2026



Sim Dot Space

Sim Dot Space is committed to pushing the boundaries of technology and innovation, delivering groundbreaking solutions that set new standards for aerospace system-level simulations and digital twins. The company's team consists of experts with decades of hands-on experience in simulations, aerospace, physics, real-time systems, avionics, embedded systems, remote sensing, DevOps, large-scale SaaS platforms and cloud-based micro-services. Sim Dot Space's groundbreaking framework revolutionizes the development and verification of complex aerospace projects, integrating simulations, digital twins, and dynamic HIL hybrid labs into a cutting-edge infrastructure. The framework includes a comprehensive suite of tools and resources - a C/C++ SDK, Open API, an aerospace model library and toolkit, a code generation tool, sample code, online documentation, 3D visualization, training and support - accessible through various software licenses (developer, runtime, HIL, models library, etc.). Sim Dot Space also offers turn-key fixed-price projects for simulations, HIL, Training/Operations/Maintenance simulation, and digital twin development, handling all aspects of the project from design and development to testing and deployment. The company's experience includes support for missions and platforms such as the Beresheet 1 and Beresheet 2 lunar landers, sensors onboard Luna-25, Mars Odyssey, ExoMars Trace Gas Orbiter, BepiColombo, NASA's LRO, and the Curiosity Mars rover, as well as the Hermes 450 UAV, F-16 avionics software development, ground stations for aerial electro-optic pods, C-130 and P-3C aircraft, a ground forces VR simulator, and VH-92 support at Quantico.

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SERVICES

Services

Flight Software development dynamic simulation

Development of high-fidelity simulations of entire systems to thoroughly validate flight software (FSW) and Guidance, Navigation & Control (GNC) in a purely dynamic and digital environment.

Hardware In The Loop dynamic simulation

Integration of simulations with On-Board Computers (OBC) and other hardware components in real-time to validate embedded software critical for GNC modules.

High-level (algorithmic) simulation

Rapid development of black box models for all hardware components, full system, environment, dynamics, and ground segment to enable comprehensive analysis and optimization of satellite design and miss

Training, Operations, Mission simulation

Development of Training, Operations, Mission Simulations (TOMS) for operator training and validation of mission profiles against client requirements.

Turn-key fixed price projects for simulations, HIL, Training Operation and Maintenance simulation and digital twins development

Sim Dot Space offers comprehensive, fixed-price projects covering design, development, testing, and deployment for simulations, Hardware-In-the-Loop (HIL), training, operations, maintenance simulation

Product catalogue



SIM DOT SPACE

C/C++ SDK

SDK for rapid development of high-fidelity aerospace system-level simulations, HIL and Digital Twins.

Languages	C/C++
Includes	Sample code, online documentation, unit tests
Platforms	Linux and Windows

price on request



SIM DOT SPACE

Sim Dot Space Framework

A simulation, digital twin, and HIL framework for developing and verifying complex aerospace and satellite systems, combining an SDK, open API, model libraries, code generation, an

Components	C/C++ SDK, Open API, aerospace model library and toolkit, code generation tool, sample code
License types	Developer, runtime, HIL, models library, etc.
API type	REST API / Open API 3.0 / Swagger
SDK includes	Sample code, online documentation, unit tests
Code generation output	Portable (Linux and Windows) C++ code, fully documented and consistent
3D visualization features	One or more satellites, sensor/camera field of view indications, thruster animation, axis
Supported hardware interfaces	RS-232, RS-422, RS-485, CAN BUS, I2C, SpaceWire, PWM, SPI, Digital I/O, Analog inputs, Ana

price on request



SIM DOT SPACE

Simulation and Digital Twin Services

Sim Dot Space provides turn-key fixed-price projects for high-fidelity simulations, Hardware-In-the-Loop (HIL) testing, and digital twin development, primarily for aerospace applic

Integration target	On-Board Computer (OBC) and other hardware components
Validated function	Embedded flight software / GNC module
price on request	

Contact Sim Dot Space

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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