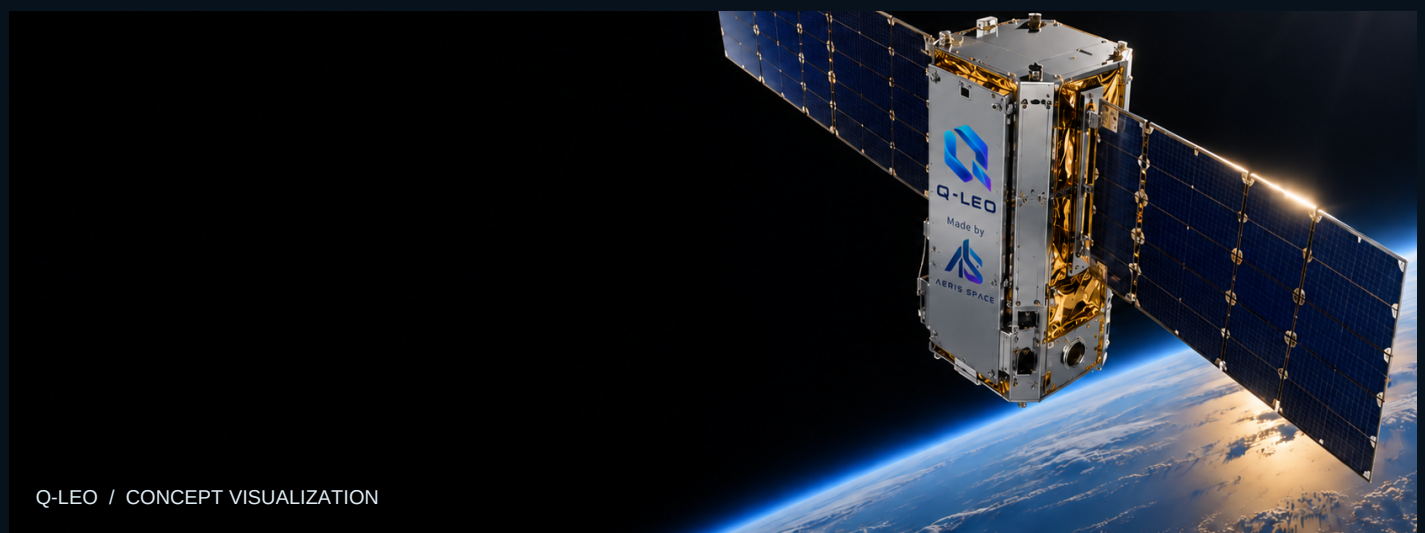


Intelligence at the orbital edge.

An experimental spacecraft architecture for advanced quantum-AI computing in space, quantum-enabled AI-powered space domain awareness, and research supporting spectrum superiority.



Q-LEO / CONCEPT VISUALIZATION

01 / Q-LEO

Compute in space.

Optical sensing, proposed onboard hybrid processing and communications in a CubeSat research architecture.

02 / QxAMP

Connect the methods.

Feature encoding, quantum circuit models and classical orchestration in an editable research workbench.

03 / SPACE C2

Keep the context.

Public orbital geometry, simulated spacecraft and mission studies connected to traceable processing evidence.

Mission intent: Spectrum superiority is a research objective grounded in spectral characterization, signal understanding and informed use of the electromagnetic environment. The current platform provides models and simulations for evaluating that objective.

Inspect the architecture. Define the next experiment.

The public experience connects a candidate digital spacecraft, a transparent computational example and protected engineering and research workspaces.

12U

Candidate envelope

4 nodes

Compute allocation

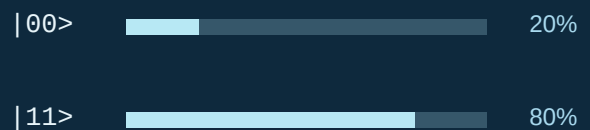
13 modules

QxAMP research library

R0.3 design candidate. These values describe the current digital model and research library; they do not establish flight qualification or measured orbital quantum performance.

ONE REPRODUCIBLE EXAMPLE

A synthetic feature $x = 0.80$ is encoded by a rotation followed by controlled-X. The exact analytical result gives $P(00) = 0.20$ and $P(11) = 0.80$. The public walkthrough exposes the input, circuit and exportable study record.



Evidence boundary. This example is an educational two-qubit model, not a sensor measurement, a trained operational classifier or a quantum-hardware execution. Quantum advantage must be established through task-specific comparison with appropriate classical baselines.

THREE WAYS TO START A COLLABORATION

Research

Define a question, dataset and comparison method.

Payload integration

Discuss interfaces, duty cycles and resource assumptions.

Mission architecture

Frame an observation objective and its validation plan.

Explore the product and public mission example

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