# Fact Sheet
About Fox2Space

Founded in 2020 by a global team of scientists and engineers in Japan, Fox2Space operates in South Africa, the United States, and Europe, with boots on the ground in all regions and the capability to support your satellite, subsystem, service, and avionics and CDH needs worldwide.

Fox2Space's founders invented a series of new technologies which make it possible to achieve strong fault-tolerance and a high degree of redundancy for the most critical applications in space and terrestrial applications, using only widely available COTS components.

Fox2Space developed a suite of tools and support equipment to validate its technologies and help customers quickly become productive with its products and Adaptive Avionics. These tools can simulate entire satellites with real third-party subsystems, as shown in the satellite simulator kit below.
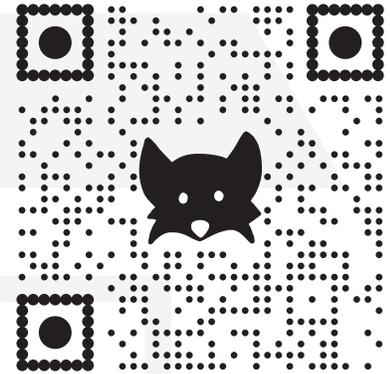
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Adaptive Avionics

Adaptive Avionics enables electronics to behave akin to living tissue when handling damage; instead of failing, they age and sacrifize performance to compensate for damage. These are constructed from independent, autonomously operating cells that cooperate and support eachother.

Cells can repair each other and replace incorrectly behaving ones. This allows Adaptive Avionics-protected solutions to not simply fail, but to gradually age and degrade like living tissue. The figure to the right shows an example setup based on the satellite simulator depicted above.

Adaptive Avionics provides system-level fault adaptivity, enabling spacecraft to tolerate diverse failures including radiation. It uses no exotic parts, avoids single-vendor lock-in, and ensures supply chain resilience, trust, and authenticity, even under partial destruction in space, air, sea, or on the ground.
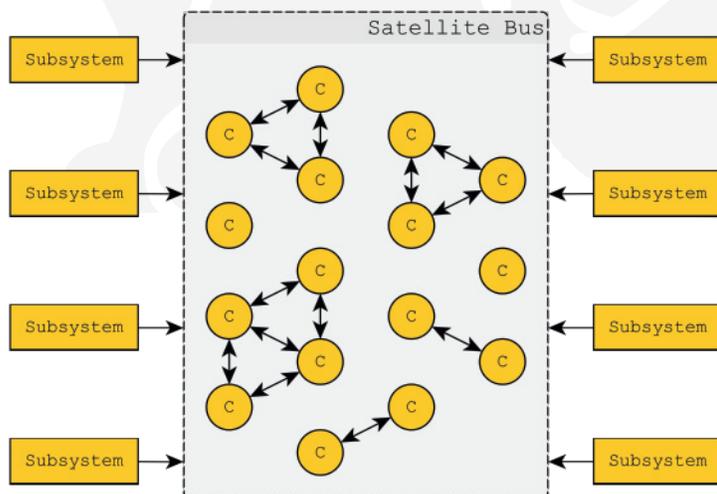
Fox2Space offers a scalable range of onboard computing solutions from ready-made OBCs to fully customized avionics tailored to your mission needs. Adaptive Avionics will be available for licensing by subsystem vendors and satellite builders. This allows seamless integration into 3rd-party products, empowering vendors to underlock more lucrative contracts that they today can not service. It can enable spacecraft to survive even partial destruction while preserving full avionics functionality, and helping increase supply chain robustness.

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Fox2Space	Joint	Client

Preparation Phase

- Define and Analyze Mission Requirements
- Develop High-level Requirements
- Lifetime Assurance Modeling
- Select Platform and Product Topology
- ICD and Physical Customization
- Hardware and Firmware Customization
- Subsystem Development with DevBoard Setup
- OBC Platform Prototype
- Satellite Simulation Continuous Integration
- Logicware Integration
- Platform Development with Prototype
- FDIR and Protection IP Integration
- Prototype HW-SW Integration
- IP-Software Integration
- Flight-Equivalent Model
- Software Integration with Flight Model

Post Delivery Phase

- Flight Model Test and Integration Support
- Flight Model
- Integration and Testing
- Flight Configuration And Finalization
- Post Launch Support
- Launch
- Deployment and Mission Operations