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MISSION-READY SOFTWARE: HINTS & TIPS

Are your new Building your first satellite? Software can make or break your timeline. This quick hints & tips helps lean engineering teams plan ahead, avoid delays, and lay strong foundations — from system design to integration and operations.

1 PLAN EARLY

Hint: Align **flight and ground software** from day one and define team responsibilities.

Tip: Plan both segments together to prevent duplication, delays, and cost creep.

2 DESIGN FOR SCALABILITY

Hint: Build **modular architecture** that can grow beyond your first satellite.

Tip: In-built scalability saves costly rework when adding future missions.

3 BUILD EFFICIENTLY

Hint: Use proven, reusable modules and define hardware/software interfaces early.

Tip: Pre-integrated building blocks accelerate development and reduce cost for lean teams.

4 INTEGRATE WITH SUPPORT

Hint: Plan integration between onboard and ground systems and select the appropriate **support level.**

Tip: Flexible, expert guidance de-risks your mission and speeds time to orbit.

5 ENSURE OPERATIONAL READINESS

Hint: Match software to each **mission phase** and combine onboard with operations tools.

Tip: Integrated ops environments ensure smoother handovers and less custom development.

Choose the right software approach
Building a spacecraft is hard — your software doesn't have to be. Flexible, reusable, well-supported software foundations help you launch faster, avoid delays and stay on budget.

With Bright Ascension's HELIX® suite you get:
- Modular, reusable software blocks
- Expert support from setup to mission ops
- Built-in scalability for future growth