

Case Study

Jovian-1 an inaugural satellite mission planned through JUPITER – A Joint Universities Program for In-Orbit Training, Education and Research.



Overview

The Joint Universities Programme for In-Orbit Training, Education and Research (JUPITER) is an ambitious new programme from three of Space South Central's partner universities: Surrey, Portsmouth, and Southampton.

The University of Surrey is coordinating, designing and delivering the mission, working closely with teams from the University of Portsmouth and the University of Southampton, two of its Space South Central partners.

Surrey University embarked on an ambitious space project aimed at expanding capabilities in satellite technology. This mission, involving the development of the DESPATCH satellite, is a testament to the power of collaboration and innovative solutions in the rapidly evolving field of space exploration.

Challenge

The project faced extremely tight timelines, necessitating a quick turn-around for satellite readiness and launch.

Surrey University needed a reliable solution that would allow their small engineering team to efficiently manage and execute the project within the set timeframe.

Solution: GomSpace Platform Kit

Surrey University chose the GomSpace Platform Kit, a decision driven by the need for speed and reliability. As they prepared their satellite for launch, the advantages of using the kit became clear:



Rapid Progress

The experienced space engineering team at Surrey made impressive strides in preparing the satellite, benefiting from the ready-to-use nature of the platform kit.



Single Procurement Advantage

Consolidating purchases streamlined the process, enabling immediate access to parts and quick project start. Professors and mentors could engage hands-on with students quickly, boosting enthusiasm and anticipation. It also reduced procurement time and effort, allowing the team to plan strategically and meet tight deadlines efficiently.



Time Efficiency

With initial timelines being extremely tight, the kit emerged as the only solution capable of being delivered rapidly. The product-ready kit allowed the team to focus on execution rather than setup. The thoughtful mechanical design enabled a small group of engineers to deliver significant results.



Project Highlights

The DESPATCH satellite project aims to enhance our understanding of space technology and explore innovative uses for nanosatellites.

- **Launch Date:** Scheduled for May 2025
- **Mission Goals:** Raise next generation of engineers by offering hands on experience on building new capabilities in nanosatellite design and functionality through academia.
- **Team Size:** A minimal engineering team, enabled by the comprehensive GomSpace Platform Kit, is executing the mission effectively.

Conclusion

Surrey University's partnership with GomSpace showcases how **innovative engineering solutions can empower small teams to achieve big ambitions in space exploration.**

The collaboration is **not just about building a satellite; it's about pushing the boundaries of what's possible and paving the way for future advancements in the space industry.** The anticipated launch of the DESPATCH satellite marks just the beginning of an exciting journey.

BENEFITS OF USING A PLATFORM KIT

- Managing satellite projects in university labs can be complex and time-consuming. GomSpace Platform Kits simplify this by providing **ready-to-assemble components and standardized subsystems**, reducing integration challenges and speeding up project development.
- Working with a single supplier **cuts administrative paperwork and procurement delays**, letting you and your students focus on innovation and learning.
- Plus, **50 support hours can be used for training and info sessions** at GomSpace—great opportunities for student engagement and early talent spotting. With full documentation and support, our kits help keep projects on time and within budget, making satellite labs more efficient and impactful.

NO MORE:



Project Delays



Technical Issues



Multiple Suppliers



Administrative Challenges

PRE- TESTED KIT

SUPPORT & DOCUMENTATION PROVIDED

FAST LEAD TIME