

# Matthew STUTTARD



DOB: 8 June 1959

Nationality: UK

[linkedin.com/in/matthew-stuttard](https://www.linkedin.com/in/matthew-stuttard)

[matthew.stuttard@mstarspace.co.uk](mailto:matthew.stuttard@mstarspace.co.uk)

**Skills: Space Upstream and Downstream, Mission Definition, Bids/Reviewing, Negotiation, Project Management, R&D Portfolio Management, Creativity Stimulation, Business Modelling, *Satellite Technology Strategy Development, Space Technology Roadmapping*, Public Speaking, Media, Space Consultancy, Training and Project Evaluation**

## Domains of Expertise

**Space Upstream experience** - mission concepts and Phase A/B: Satcoms (GEO, LEO), Space Science (Solar Orbiter, Jupiter, Exoplanets), Space weather (Vigil), Space weather sentinels (future), Planetary Exploration (Exomars rover, MSR, Lunar rover, Lunar/Jupiter moon Penetrators), In-Space Robotics, Earth Observation (SAR, Hyperspectral), Space Debris Remediation (Remove Debris), Small Launchers, Lunar ISRU, Cislunar Post Mission Disposal.

**Space Technologies awareness:** digital on-board processing, free space optical communications, quantum secure communications, photonics, robotic components in-space and on-surface, in-space propulsion (C and E), thermal management, optical imaging, active and passive RF sensing, thermal and structure materials, additive manufacturing, antennas (deployable, active), TRL evaluation.

**Space Downstream experience:** land use/land capability mapping, land use change mapping, forest mapping, agricultural monitoring, precision agriculture with multi-spectral satellite imaging (pioneer), global vegetation fire monitoring (world first product at 1400nm).

**Generic:** Creativity Stimulation in group situations, Space mission definition, Critical Thinking and Analysis, Proposal Leading/Writing to win, Critical Reviewing (>400 proposals small to £1Bn+), Negotiation, Project Management, **R&D Portfolio Management**, Space Technology Patent Portfolio Management, Business Modelling, Complex Business Case Development, **Satellite Technology Strategy, Technology Roadmapping**, Inspiring Public Speaker/Presenter, Committees, R&D Expenditure Credits, collaboration with SMEs and Universities, Capacity Building, win-win teaming and IP agreement.

## Company Roles and Selected Professional Experience

Sep 2023 - **MStar Space Ltd.** My own company, delivering space advisory services. Associated with Space Professionals Partnership Ltd. Technical due diligence on a SAR startup for a VC, Space proposal appraisals for a UK University. Assessment of 13 proposals for the Aqualunar Challenge. Study of Lunar Post Mission Disposal for UKSA.

2019 - Sep 2023 **Airbus Defence and Space** Head of Space Technical Strategy and R&D UK  
Role: Space Systems focal point for R&D internally and externally with UKSA, ESA, other UK Institutions, industry and SMEs. Coordinated with Airbus DS UK stakeholders: Space Programme Units (**Satcom, EO, Nav, Science, Robotics, Lunar and Mars Exploration, In-orbit Assembly, Space Safety**), Engineering, Satellite Manufacturing, Airbus CTO. R&D plan. UK aspects of ESA Industrial Policy Committee, winning ESA and UKSA technology projects. R&D Tax Credit process.

2013 - 2019 **Airbus Defence and Space** Advanced systems architect: Space Systems Engineering  
Role: develop advanced concepts with business cases. Topics: in-space manufacturing, space robotic arm and rovers, active debris removal, small launchers, satcomms, space weather, sensing, high altitude drones, radiation shielding, nanosats.

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2006 - 2013	<b>Airbus DS</b> HO Space Science and Robotic Exploration Future Programmes <ul style="list-style-type: none"><li>• Trans-national R&amp;D Coordinator (Space Robotics, Optical, Microwave, SAR)</li><li>• Phase 0/A/B1 capture: Mars Sample Return, Solar Orbiter, JUICE, Euclid, Plato</li><li>• Mission proposals (ESA, UKSA): Vigil Space Weather, asteroid sample return, exoplanet spectroscopy, lunar penetrator, lunar science package, asteroid deflection</li></ul>
2001 - 2006	<b>CGI (Logica)</b> Principal Consultant Earth Observation and Geospatial Systems ESA key account manager. Multiple proposals and projects with ESRIN on EO data. <b>GIS and Remote Sensing capacity development assistance over 5 year period: Watershed Management Directorate, Uttarakhand, India (EU funded).</b>
1996 - 2000	<b>Remote Sensing Applications Ltd</b> Director and Quality Management Monitoring farm subsidies using satellite imagery (UK govcontract). Synthetic Aperture Radar (SAR) applications R&D (ESA contracts). EO for Precision farming (EC FPV)
1990 - 1996	<b>Earth Observation Sciences Ltd</b> Project/technical manager. Software development for advanced satellite image products (ESA, EC, UK government), <b>Kenya Rift Valley Lakes monitoring (EC FPV) 3 year project with Regional Remote Sensing Centre in Nairobi.</b>
1989 - 1990	<b>Tydac Technologies</b> Geospatial information system (GIS) pre-sales support and product training courses in UK, Europe, Middle East and Asia
1982 - 1989	<b>Cranfield University/Silsoe College</b> Research. Lecturer in Applied Remote Sensing

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## Selected Committee/Panel Experience

2025	AIAA Space Sustainability Task Force: member
2019 - 2023	Global Network on Sustainability in Space (GNOSIS) – Board Member
2019 - 2022	SPace Research and Innovation Network for Technology SPRINT– Board Member
2017 - 2019	Eurospace: Access to Space Working Group, Airbus DS Ltd representative
2007 - 2013	UK Space: Space Science and Exploration Committee: member
2005 - 2007	British Association of Remote Sensing Companies: Chairman

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**Education** 1981 BSc (Special Honours), Geography, Sheffield University

**Interests** Swimming, Photography, Singing Sea Shanties, Fine Wine, Gardening