

Matthew STUTTARD



DOB: 8 June 1959

Nationality: UK

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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, Space Sustainability*, Public Speaking, Media, Space Consultancy, Training and Project Evaluation, Artificial Intelligence.

Domains of Expertise

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

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), radio-isotope thermo-electric generators (RTG), quantum technologies for space, 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, Universities and colleges, Capacity Building, win-win teaming and IP agreement.

Company Roles and Selected Professional Experience - updated February 2026

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 proposals and projects for the Aqualunar Challenge. Study of Cis-lunar Post Mission Disposal for UKSA. Lunar Debris Mitigation Guidelines technical foundation study for UKSA. Support to Quantum Technology Roadmap for Space.

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/IoT, space weather, sensing, high altitude drones, radiation shielding, nanosats.

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- 2006 - 2013 **Airbus DS** HO Space Science and Robotic Exploration Future Programmes
- Trans-national R&D Coordinator (Space Robotics, Optical, Microwave, SAR)
 - Phase 0/A/B1 capture: Mars Sample Return, Solar Orbiter, JUICE, Euclid, Plato
 - Mission proposals (ESA, UKSA): Vigil Space Weather, asteroid sample return, exoplanet spectroscopy, lunar penetrator, lunar science package, asteroid deflection
- 2001 - 2006 **CGI (Logica)** Principal Consultant Earth Observation and Geospatial Systems
- ESA key account manager. Multiple proposals and projects with ESRIN on EO data. Lead Systems Architect UK Hydrographic Office Vision 2000 Flowline. **GIS and Remote Sensing capacity development assistance over 5 year period: Watershed Management Directorate, Uttarakhand, India (EU funded).**
- 1996 - 2000 **Remote Sensing Applications Ltd** 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 **Earth Observation Sciences Ltd** Project/technical manager. Software development for advanced satellite image products (ESA, EC, UK government), **Kenya Rift Valley Lakes monitoring (EC FPIV) 3 year project with Regional Remote Sensing Centre in Nairobi.**
- 1989 - 1990 **Tydac Technologies** Geospatial information system (GIS) pre-sales support and product training courses in UK, Europe, Middle East and Asia
- 1982 - 1989 **Cranfield University/Silsoe College** Research. Lecturer in Applied Remote Sensing. Monitoring Landscape Change in the National Parks Project.

Selected Committee/Panel Experience

- 2026 - Lunar Ledger Advisory Board
- 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

Patents

- US12505750B2 A Method of Contrail suppression (2025)
- US20240352897A1 A method of suppressing contrails emitted by a propulsion system of an aircraft (2025)

Education

1981 BSc (Special Honours), Geography, Sheffield University

Interests

Swimming, Photography, Singing Sea Shanties, Fine Wine, Gardening, Bonsai, Carrots, Sarracenia, Pottery, Egyptian Civilisation