WORK EXPERIENCE

August 2018 to present

ASI Associate (Senior Consultant) on Earth Observation

Main Responsibilities

- Member of Evaluation Board for SBG phase A/B1 industrial offers
- Member of the Evaluation Board for the 2022 Call for scientific proposals in support of the national Earth Observation missions
- Member of the Review Board for the SBG MCR (Mission Concept Review)
- Member of the IRIDE ESA ASI IPT managing the IRIDE program, supporting Ground Segment and User related activities
- Member of the ASI MAIA mission team, coordinating the definition and implementation of the ASI Science Program associated to the mission
- ASI Focal Point ASI to the SCO (Space Climate Observatory) (2019-present)
- GEO (Group on Earth Observations) Principal Alternate for Italy,
- Member of the ESA MAG (Mission Advisory Group) for the CHIME mission, on of the Copernicus HPCM's (2018-present)
- Member of the Scientific and Technical Council of the "Mario Gulich" Institute, Cordoba-Argentina (2020-present)
- Member of a Working Group, the GdL-OT, set up by the Italian Government to consolidate/improve the Italian Earth Observation Infrastructure and services for the benefit of Institutional and Commercial Users (2019-2020)
- Member of the internal Data Policy Working Group for the definition of data policy associated with national missions (namely COSMO-SkyMed and PRISMA (2018-2019).

Involvement in several "on demand"/short term activities, ranging from the participation in the organization of Workshops to the support to PRISMA mission and data exploitation.

January 2017 to December 2018 **Senior Expert & Consultant**

2018

Evaluator of proposals originating from calls within the H2020 Program of the European Commission

2017

Two “part-time” activities

Consultant to United Nations for the Office for Outer Space Affairs (UN-OOSA) with the scope, documented in the issued report, of identifying all the main components of a “Global Partnership for the Coordination of Development, Operation and Utilization of the Space related Infrastructure, Data, Information and Services in support of the 2030 Development Agenda”; and assess, at a pre-feasibility level of detail, initial requirements and guidelines for the implementation. The concept for this Global Partnership described in the consultancy report is now being consolidated and finalized by UNOOSA in view of becoming an element of the UNISPACE+50 Conference (Vienna, June 2018). I presented a summary of the report at the COPUOS 60th meeting in Vienna on 14 June 2017 and it was well received. Moreover, the concept of the Global Partnership was thoroughly discussed at the Second High Level Forum “Space as a driver for socio-economic sustainable development”, which I attended, held in Dubai, UAE on 6 – 9 November 2017.

Member of the “Hyperspectral Imaging Mission Expert Group” to advise ESA on the definition of requirements for a future operational space component to meet user needs in the context of a Copernicus mission contributing to Agriculture Monitoring, Food security, as well as mineral resources mapping, coastal and inland water and forestry. The Group’s activities started in June 2017 and ended in December 2017 with the issue of the Mission Requirements Document (MRD) for the Mission now being called CHIME (Copernicus Hyperspectral Imaging Mission for Environment).

June 2006 to December 2016 **GEO Secretariat**

Since June 2006 and until today, I worked at the Secretariat of the Group on Earth Observation - GEO (from June 2006 to May 2008 as Expert seconded by the Italian Space Agency - ASI).

During this period I was in charge of:

2016

- Coordination of the execution of the activities of the new GEO Work Programme.
- Activation of the process of Identifying user needs for observations and services and addressing gaps in the information chain, thus implementing one of the GEO core functions, as spelled out in the "GEO Strategic Plan 2016-2025: Implementing GEOSS".
- Support the re-activation of the process of engagement of private sector in GEO, including drafting several preparatory documents to scope and plan the Commercial Sector session held at the Thirteenth GWO Plenary Session – GEO-XIII, in St Petersburg, Russian Federation, 9-10 November 2016.

2015

- Support to the Ministerial Working Group in charge of preparing the program, the declaration and the associated documents for the Mexico City GEO Ministerial Summit; coordination of the Summit preparation, here included the side events program, the exhibition and the development of several videos shown to Ministers.
- Preparation of the new GEO Work Programme for 2016 and its execution in 2016

2014

- Support the work of the GEO Implementation Plan Working Group (IPWG) as the primary GEO Secretariat interface; this implied:
    - Organize and support the work of the Group;
    - Run weekly teleconferences
    - Support the organization ad execution of four meetings of the Group
    - Contribute to the drafting of the "GEO Strategic Plan 2016-2025: Implementing GEOSS" and ensuring submission of its various drafts to the GEO Plenary and Executive Committee
    - Provide coordination on the engagement of the GEO Community, including execution of a dedicated survey and production of the relevant report

- Support to the finalization of the AfriGEOSS concept and to the development of its implementation Plan, endorsed by the GEO-XI Plenary in November 2014. Support the preparation and participation to meetings and events in Africa, Europe and US.
- Preparation of the first meeting of the Ministerial Working Group, in charge of the next GEO Summit.
- Support the activities of the GEO Monitoring and Evaluation Working Group

2013

- Support to the Ministerial Working Group in charge of preparing the program, the declaration and the associated documents for the Geneva GEO Ministerial Summit; coordination of the Summit preparation, here included the side events program, the exhibition and the development of several videos shown to Ministers.
- Consolidation of the AfriGEOSS initiative (concept approved at GEO-IX in November 2012) and set up of the initial coordination network of African participants. Preparation of and participation to the official launch of the initiative in Addis Ababa, fall 2013
- Support the activities of the GEO Monitoring and Evaluation Working Group

2012

- Definition of a preliminary framework for the engagement of the private sector in GEO and preparation of the relevant document, endorsed by GEO-IX Plenary in November 2012.
- Support to the start up of the GFOI (Global Forest Observations Initiative) Office at the GEO Secretariat
- Support the activities of the GEO Monitoring and Evaluation Working Group

2008-2011

- Secretariat coordinator for the GEO Forest Carbon Tracking task
- Support to the GEO Secretariat Director in Satellite related matters, including participation to CEOS (Committee on Earth Observation Satellites) activities and meetings
- Support the activities of the GEO Monitoring and Evaluation Working Group

2008

- Health SBA Expert
- Energy SBA Expert (interim, few months)
- Support to the GEO Secretariat Director in Satellite related matters, including participation to CEOS (Committee on Earth Observation Satellites) activities and meetings
- Support the activities of the GEO Scientific Committee

2006-2007

- Disasters SBA Expert
- Support to the GEO Secretariat Director in Satellite related matters, including participation to CEOS (Committee on Earth Observation Satellites) activities and meetings
- Coordination of preparation of Cape Town GEO Ministerial Summit documents (Report on Progress and its Annex)
- Support the activities of the GEO Scientific Committee

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January 1981 to May 2006 — Italian Space Agency-ASI, established in 1988, formerly CNR/PSN

Period 1 – from 10/2002 to 05/2006 — Head and Deputy Head, Earth Observation Unit

Under the direct authority of the Head of the Earth Observation Unit and, previously, of the ASI Director General, in charge of :

- Consultations, definition and negotiation of agreements with Institutional Users (Civil Protection and National Environment Agency).
- definition of User Requirements and development of applications based on the use of satellite Earth Observation data;
- definition and execution of the supporting scientific/technological programme
- definition of new national Earth Observation space missions and monitoring of their development, including mission management
- Definition and coordination of training programs

Italian Delegate to the ESA Earth Observation Programme Board
Industrial Expert in support of the Italian Delegation to EUMETSAT
Member of the Italian delegation to the “ad-hoc” GEO, member of the “International Working Group” and participation to the third EO Summit in 2005 that established GEO

Max Number and type of employees supervised	5, out of which 4 professionals
Max Yearly budget	5 M€

Period 2 – from 01/1999 to 09/2002 — Head COSMO-SkyMed and Earth Observation Unit

Under the direct authority of the ASI Director General, in charge of :

- Design, development and exploitation of the COSMO-SkyMed satellites constellation in the frame of the Italian-French governmental agreement on EO, including the negotiation of relevant detailed agreements with Italian Defence Ministry and with the French space agency CNES;
- Design and development of associated Ground Segment and User Segment
- Definition of User Requirements and development of associated Applications.
- Definition of User Requirements and of applications based on the use of satellite Earth Observation data;
- definition and development of other national space mission including mission management (among them SRTM, flown in

February 2000, HypSeO-Hyperspectral mission)
- definition and development of national EO Payloads (among them GPS Radio occultation Payload)
- monitoring ESA programmes in the Domain of Earth Observation

Italian Delegate to the ESA Earth Observation Programme Board

Max Number and type of employees supervised 20, out of which 18 Professionals

Max Yearly budget 100 M€

Period 3 – from 01/1998 to 12/1998

Member of President's Cabinet

Under the direct authority of the ASI President, in charge of:

- all the initiatives of external relevance in the domain of communication/outreach;
- Organization of the work of the ASI Board of Directors.
- Provision of assessments and support on specific matters related to different programmes;

Member of the Working Group that defined the main principles and the architecture of the new ASI organisation.

Chairman of the ESA Manned Space Program Board Programme Board (from June 1996 to June 1999)

Max Number and type of employees supervised None

Max Yearly budget N/A

Period 4 – from 11/1995 to 12/1997

Head, Space Station and Scientific Missions Department

Under the direct authority of the ASI Director General and, previously, of the ASI Administrator, in charge of the preparation and management of all Italian national programmes relevant to:

- Space Station flight and ground elements development, such as MPLM and the Station Nodes, including negotiations of associated agreement with NASA and ESA
- Space Station Utilization
- Automation and Robotics,
- Scientific Missions, such as SAX Satellite
- Exploration Missions, such as Cassini
- Italian astronauts Office
- monitoring of the ESA programmes and activities relevant to Space Station, Microgravity Payloads and Experiments, Intergovernamental Agreement on the Space Station and Scientific Missions

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Italian Delegate to and then Chairman of the ESA Manned Space Program Board Programme Board (the latest from June 1996 to June 1999)

Chairman of the Board for the Selection of the Italian Astronauts to fly on the Space Station

Max Number and type of employees supervised	20, out of which 18 professionals
Max Yearly budget	150 Billions Lire

Period 5 – from 09/1989 to 10/1995

Programme Manager

under the direct authority of the ASI Director General and, later, of the ASI Administrator, in charge of the definition, implementation and management of the ASI/NASA bilateral co-operation on the Space Station, including :

- ASI Study Manager for the joint feasibility studies
- Responsible for MOU negotiation (MOU signed in 1991 and re-negotiated in 1997 as a result of the Space Station Redesign)
- MPLM Programme Manager.

Italian Delegate to the ESA Manned Space Program Board Programme Board
Member of the Advisory Committee on the Redesign of the Space Station, instituted by the White House to get an independent assessment on the Station Redesign. 1994-1995.

Max Number and type of employees supervised	5, out of which 4 professionals
Max Yearly budget	50 Billions Lire

Period 6 – from 09/1986 to 10/1995

Head, Operations Department

Under the direct authority of CNR/PSN Director and then of ASI Director General, for national programmes and for the Italian contribution to European ground infrastructure managed by ESA, in charge of :

- Ground Segment Development,
- Operation preparation and execution (two X-SAR missions on board the Space Shuttle in 1994 and 1995),
- Trapani Milo stratospheric Balloon launch Base, including Payload integration and checkout and yearly campaigns preparation and execution.

Member of the integrated European Team (located at ESOC-Darmstadt), for the definition of the European Ground Infrastructure in support of the manned space program

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Max Number and type of employees supervised	5, out of which 4 professionals
Max Yearly budget	2 Billions Lire

Period 7 – from 01/1986 to 12/1992

Programme Manager

Under the direct authority of CNR/PSN Director and then of ASI Director General, in charge of the management of the programme, structured in two major industrial contracts.
IRIS is a Spinning Solid Upper Stage, used in conjunction with NASA STS, capable of injecting Satellites of up to 900 kg. mass into transfer orbit, starting from STS parking orbit.
IRIS was successfully launched in October 1992, carrying the LAGEOS 2 satellite.

Italian Delegate to the ESA Ariane Program Board Programme Board

Max Number and type of employees supervised	5, out of which 4 professionals
Max Yearly budget	20 Billions Lire

Period 8 – from 01/1981 to 12/1985

Project and Study Manager

Main projects and responsibilities:

- IRIS Program Project Manager, under direct authority of IRIS Programme Manager and, before, Responsible for Mechanical Systems and Assembly, Integration and Verification activities

- HERMES (the European Space Shuttle) Active thermal Control Subsystem-ATCS Study Manager (bilateral CNES/ASI study)
- TSS (Tethered Satellite System) System Engineer.

Max Number and type of employees supervised	None
Max Yearly budget	1 Billion Lire

In addition to the positions in the Organization, a number of associated activities and responsibilities are worth to mention:

- Speaker, session chair and event chair in a number of international Workshop, Congresses and Symposia.
- ASI representative and contact point within the CEOS (Committee for Earth Observation Satellites) (2000 - 2006).
- ASI representative in the definition and implementation of the GMES-Global Monitoring for Environment and Security initiative (1999-2006).
- Member of the Italian Delegation to GEO (2003-2006).
- Member of the “Ground Segment Task Force”, and

subsequently of the Ground Segment Coordination Body put in place to ensure coordinated development of the European Ground Segment in support of EO missions, with participation of ESA, ASI, CNES, CSA, DLR, EUMETSAT(2003-2006).

October 1976 to December 1980

SNIA BPD, then Fiat Avio, today Avio

Two positions covered during the period:

1979 -1980

Project Manager, responsible, under direct authority of the Head of the Production, of the industrialisation of military solid rocket motors designed and developed by the R&D Department.

1976 - 1978

Test Engineer, responsible of data acquisition and evaluation as well as of preparation of relevant test reports, at solid rocket motor firing test bench.

EDUCATION AND TRAINING

December 1974

Doctorate in Mechanical Engineering, mark 110/110

Università di Roma La Sapienza

PERSONAL SKILLS

Mother tongue(s): ITALIAN

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
FRENCH	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
SPANISH	FAIR	FAIR	/	/	/

Communication skills

Excellent interpersonal and communication skills to work in international settings with representatives from a range of countries and geographical regions.

- Good results and the established relationships. The ASI period and the GEO period are highly complementary in this respect.
- Participation to a number of international meetings, workshops and Symposia.

Excellent verbal and written communication skills fluency in Italian (mother tongue), English and French; fair understanding of Spanish.

- Fluency in English, French and Italian, written communication skill developed through writing, reviewing and negotiating technical and programmatic documents.

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Organisational / managerial skills

Maturity of judgment, ability to take initiative and produce original ideas, the ability to plan, organize and manage projects:

- Developed through 40 years of work;
- Direct experience and responsibilities for all programme phases, from feasibility to launch and operations, including design and development of Space Systems and of relevant applicative products and services;
- Longstanding experience as director of Departments for different lines of activities/programmes;

Longstanding experience in the organization of events of technical-scientific and of "formal" nature:

- Coordination of the organization of events ranging from workshops on specific topics to formal meetings with hundreds of participants. Definition of the Programme/agenda, prepartion of event's documents, event logistics.

Job-related skills

Longstanding experience in the definition and implementation of complex, international, co-operative programmes:

- Direct experience and responsibilities for all programme phases, from feasibility to launch and operations, including design and development of Space Systems and of relevant applicative products and services;
- Longstanding experience as director of Departments for different lines of activities/programmes: Operations, Space Station, Scientific Programmes, Earth Observation;
- Longstanding experience in the definition and negotiation of international agreements.

Solid background on the use of Earth Observations (EO) in support of decision-making and a clear understanding of the process of gathering and then meeting users' needs:

- Knowledge has been gained from 1999 to present through positions and activities within ASI and the GEO Secretariat, in particular through identification of users' needs, implementation of satellite missions and definition and development of agreed (by the user) applications;
- Data policy and data distribution aspects fully dealt with in the COSMO-SkyMed program, plus ten years of work in the GEO Secretariat to implement The GEO Strategic Objective which is to ensure to the users the actual access to data, information products and services.

Good knowledge of the EO "Users Communities" and good understanding of their needs and internal processes:

- Knowledge has been gained from 1999 to 2016, through positions and activities within ASI and the GEO Secretariat.

In depth knowledge of the Earth Observation space community, satellite capabilities and applications, as well as issues connected to data distribution:

- Knowledge has been gained from 1999 to 2016, through positions and activities within ASI and the GEO Secretariat.

In-depth knowledge of several international organizations/on going processes such as ESA, GEO and GEOSS, CEOS, Agenda 2030 for Sustainable Development (SDGs):

- Excellent knowledge and insight into the GEO process, firstly as component of the Italian Delegation since its inception, and then member of the GEO Secretariat since June 2006; when in ASI through participation to a number of National and International Bodies (such as CEOS, ESA Earth Observation Program Board, ….).

Longstanding experience in the definition and negotiation of international agreements

- Quite a number of international and national agreements successfully negotiated - see CV

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Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
INDEPENDENT USER	INDEPENDENT USER	BASIC USER	BASIC USER	BASIC USER

Driving licence B

ANNEXES

Negotiation of Agreements

For all the agreements listed below, I was in charge of the negotiations, with the support of legal office.

- NASA-CNR-PSN(then) ASI agreement for LAGEOS II satellite development and Launch. 1985-1986
- NASA-ASI agreement for the MPLM (within the Space Station Programme). First agreement signed in 1991, agreement re-negotiated from 1994 to 1997, following the Space Station redesign, signed in October 1997.
- ASI-ESA agreement on MPLM-COF (European Laboratory for the Space Station) commonalities, signed in 1995
- ASI-ESA agreement on Node2 and Node3 for the Space Station. Negotiations involved also NASA. Signed in 1997.
- Member of the Italian Negotiation Team for the IGA (Intergovernamental Agreement) on Space Station re-negotiation. 1994-1998
- Member of the Italian Negotiation team for the Italian-French agreement on Earth Observation (including the development of the new dual system based on COSMO-SkyMed and Pleiades).Negotiation 1999-2000, signed by the two Prime Ministers in January 2001.
- ASI-NARSS (National Authority for Remote Sensing of Egypt) agreement on Feasibility study of a satellite for Remote Sensing (Desertsat) and associated cooperative activities in the field of Earth Observation, signed in spring 2001
- ASI-CONAE (Space Agency of Argentina) agreements on design, development and operations of a System for Emergencies Management (SIASGE) based on the ASI COSMO-SkyMed and the CONAE SAOCOM satellite systems, including also joint development of applications and training.
- Agreement for the definition phase signed spring 2001.
- Agreement for the development and operations phase signed 2005.
- ASI-CNES agreement on the Dual System Definition Phase, signed in June 2001
- ASI-Italian Ministry of Defence on COSMO-SkyMed Development, signed in October 2002
- ASI-APAT (Italian National Environmental Agency), preliminary agreement on different applications (such as coastal management, waste management, ecosystems monitoring), drafted 2004.
- ASI-Italian Civil Protection, for development of applications and provision of data and services in the area of Risk Management signed 2005
- ASI-CSA (Canadian Space Agency), framework agreement for cooperation in the Domain of Earth Observation, signed June 2005.
- ASI-CSA (Canadian Space Agency), specific agreement for the joint definition of a Hyperspectral mission, signed November 2005.
- GEO Secretariat-ITU framework agreement on “Cooperation in Earth Observations, Emergencies, and Other Matters on Mutual Interest in Information and Communications Technology”, signed December 2007.
- SCO (Space Climate Observatory) Joint Declaration of Interest, signed in June 2019
- SCO Charter signed in June 2022

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