

## PERSONAL INFORMATION



## LUSARDI Alessandro

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Sex Male | Date of birth 30/08/1970 | Nationality Italian

## WORK EXPERIENCE

01/10/2020 - current

**Service Manager**

*Rhea GmbH (Germany)*

- Service Manager of the Engineering Service Support (SEP) for EUMETSAT
  - Ground Segment Requirements Definition
  - Ground Segment Design Model Definition (**MBSE** based)

Concurrent Design Facility (CDF) amabassador.

01/02/2019–30/09/2020

**System Engineer**

*C-S GmbH, Darmstadt (Germany)*

**- SIP Converter Engineering support and Maintenance**

**- EPCT Toolbox support**

Preparation and maintenance of the set of technical documentation including, but not limited to, System Requirements, Delta Requirements, System Design, Delta Design, Design Justification, User/Developer Documentation, Test Plan and Test Cases & Procedures in order to manage Sentinel 3 products.

**-Sentinel-3 Ground Segment re-engineering support**

- Review, Analysis and definition of the Data Services and their Service Level Agreement (SLA)
- Review of Data Services Requirements
- Translation of system level requirements into definition of service and vice-versa
- Implementation of Services, their SLA and corresponding metrics
- MME Services, requirements, design and V&V.
- MMDS, OLDA, ICSI, WMS and EPCT documentation.
- Analyse and define system interfaces
- Definition of Verification and Validation Test Specification and approach from perspective of Services and SLA's.
- Analysis and definition of test cases, data, tools and procedures.
- Analysis of test results and reporting.
- Management of VCDs

01/04/2017–01/31/2019

**AIV Manager**

*CGI, Darmstadt (Germany)*

**Galileo GCS SCCF AIV Team Leader**

- SCCF FOC release FAT Management (SCCF Control Centre is based on SCOS-2000)
- Management of VCDs
- Design of Integration and Verification test specification
- Preparation of Integration and Verification test procedures

Test Data analysis and preparation

***Eumetsat MTG System/Ground Segment I&V engineer***

- Preparation of MTG Ground Segment VCD
- Preparation of Specification of MTG GS Test Harness
- Design of Integration and Verification test specification
- Preparation of Integration and Verification test procedures
- Test Data analysis and preparation
- Analogue recording of payload data using PTMR

***IV&C Manager for Eumetsat Pathfinder II / III (OLDA, WMS and Hosted Processing ICSI)***

- Team leader of the engineering and AIV teams
- Hosted Processing concept design.
- Management of the design and AIV activities
- Schedule preparation

***AIV Manager for the complete Pilot programme of NM and GRP subsystem of "OneWeb" telecommunication satellite system***

- IV&V activities applying AGILE methodology
- Continuous integration
- Preparation of I&VV Plans
- Preparation of VCDs
- Preparation of Specification of Test Harness
- Preparation of Integration and Verification test specification
- Preparation of Integration and Verification test procedures
- Test Data specifications and preparation
- Requirements Traceability Analysis (using DOORS)
- AIV Schedule preparation and maintenance
- Execution of Integration and Validation Tests

01/09/2011–30/03/2017

**AIV Team Leader**

Terma, Darmstadt (Germany)

***Ground Segment I&V Engineer of MTG programme at EUMETSAT***

- Preparation of MTG Ground Segment I&V Plans
- Preparation of MTG Ground Segment VCD
- Preparation of Specification of MTG GS Test Harness
- Preparation of Integration and Verification test specification
- Preparation of Integration and Verification test procedures
- Test Data analysis and preparation
- Requirements Traceability Analysis (using DOORS)
- MTG GS I&V Schedule preparation and maintenance

- Review of MTG Ground Segment Facilities PDR/CDR data packages
- Attendance to the Acceptance of some MTG system test tools and MTG GS subsystems
- Execution of Integration Tests (first Data Processing chain "data circulation" test held on August 2016)
- Deputy of the MTG GS AIV Manager

01/01/2009–31/08/2011

### AIV Manager

*Telespazio* (a Leonardo company), Rome (Italy)

He performed as AIV manager the Integration and Validation Tests of **HLCS (High Level Control System)**, **CdC (Centre de Calcul) subsystems of VEGA Launcher CCV** at Kourou (French Guyane) CSG.

Task included:

- Integrations test between CCV and Launcher's interfaces.
- Validation Tests to verify the user requirements and all changes.
- Run of all manual and automatic procedure
- Preparation of all Tests Reports
- Problem solving (ex. integration problems about "Time synchronization" using IRIG-B signal)
- Management of anomalies (SPR, NCR and EQT) in the context of "Combined Tests" using Bugzilla tool.

As AIV manager he participated to the "preparation" phase of AIV of **HLCS (High Level Control System)**, **CdC (Centre de Calcul) subsystems of VEGA Launcher CCV** and he performed all tests activities of "Integrated Tests" of Ground Segment of Vega Launcher in Kourou (French Guyane) at C.S.G. He performed also PA activities referred to these two subsystems.

Activities included:

- Production AIV Plan, Validation Plan, Integration Plan, Verification Control Document, Test Procedures (and Automatic Procedures written in Java language).
- Preparation and execution of the Unit tests using JUnit tool.
- Execution of "Integrated Test" procedure at CSG in Kourou
- Preparation of Test Readiness Reviews and Test Review Boards
- Management of anomalies (SPR, NCR and EQT) in the context of "Integrated tests" using Bugzilla tool.

He performed all requirement traceability activities and changes management using also (telelogic) DOORS tool. He prepared a small configuration management environment using cvs to manage LN1, LN2 and LN3 products. He prepared PA plan and all CIDLs.

01/01/2006–31/12/2008

### Software Engineer

*Dataspazio* (Telespazio and Datamat company) Finmeccanica group. Rome (Italy)

He performed Development, AIV and PA activities.

- **CosmoSkyMed** (Earth Observation SAR Satellites Constellation):

Development in Visual C++ of some objects of the Global Ground Segment Simulator of COSMO-SkyMed Satellite system.

- **Sicral 1B** (Military Telecommunication Satellite System):

Customization of SCOS2000 ver. 3.1 for the Control Centre System of SICRAL-1B satellite system developing in C++.

He also performed some PA activity for Telespazio

- In the context of **COSMO-SkyMed** operations at the Fucino Space Centre (CCS and CPCM)
- The preparation of **GALILEO IOV ILS and Ops** PA plan
- **CMMI appraisal**

- Preparation on CMMI appraisal (SCAMPI-A) activities

01/12/2004–31/12/2005

### AIV Manager

*Gepin S.p.A*, Rome (Italy)

As Team Leader on the **COSMO SkyMed Satellite System Global Ground Segment's AIV** (Assembly Integration and Validation) for Telespazio.

- Preparation of the Technical offer,
- Planning of all activities foreseen by the program.
- Production of the Design of System Integration and Validation Testing Plans
- Design of the Testing Procedures (producing the USE CASES, SEQUENCE DIAGRAM using UML with the Rational Rose Suite).
- Traceability analysis of Requirements using DOORS (Telelogic) and VCD preparation

01/04/2002–30/11/2004

### AIV Engineer

*Datamat S.p.A*, Rome (Italy)

He worked for the integration and Validation of the On-board Software of the **ESA ATV (Automated Transport Vehicle)** space vehicle at the EADS Space Transportation centre at *Les Mureaux (Paris)*.

Activity included:

- Development in ADA83 and C++ language of the integration platform for such of components of the software for testing and validation with F.E.S. simulator (using MatLab and some C-Functions) to validate GNC algorithms.
- Development and implementation of integration tests and unit tests (using ATTOL Test).
- Development in ADA83 and Design of some objects of the Software on Board (tool used: HOOD Nice, AdaWorld , Clear Case)

01/02/1998–31/03/2002

### AIV Engineer

*Alenia Marconi Systems*, Rome (Italy)

He worked to the integration and verification of **ATC (Air Traffic Control) systems** created by AMS (Alenia Marconi Systems currently **Leonardo**). The Integration of the A.T.C system (Hardware and Software) was held in Romania at Bucharest and Constanta airports and on 17 Radar antennas. This Real-Time system was created on a 64-bit Alpha platform using the 64-bit UNIX Tru64 operating system created by Compaq and developed in C++. He executed the integration procedures and He produced the test reports He also held several training courses for Customer on the use of the EVA plotter program.

## EDUCATION AND TRAINING

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09/09/1989–30/06/1997

### University

Electronic Engineering (Telecommunication) studies with 26 exams held at Università degli Studi di Roma, Rome "Roma III"

20/09/1984–07/07/1989

### Maturita' Classica

Liceo Classico Benedetto XV, Grottaferrata (Italy)

20/09/1998–23/05/2018

### Certifications

- ITIL 'foundation 'level course (itSMF UK by AXELOS Global Best Practice certificate)

- Certificate for the Support MS Windows 2000 Professional and Server (Ms-2152) at Global Knowledge S.p.A
- Certificate for the MS Windows 2000: fundamentals of networking and TCP / IP (Ms-2151) Global Knowledge S.p.A
- Certificate to the Use of UNIX level I (N-0640) Global Knowledge S.p.A
- Certificate for the Use of UNIX level II (N-0670) Global Knowledge S.p.A
- Certificate for the Compaq Unix Tru64 v5: Management of the system (X-383) Global Knowledge S.p.A
- Certificate for the Compaq Unix Tru64 v5: Management of TCP / IP (X-385) Global Knowledge S.p.A
- Certificate for the Compaq Unix Tru64 v5: Management of the performances (X-320) Global Knowledge S.p.A

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	B2	B2	C1
	Replace with name of language certificate. Enter level if known.				
French	B2	B2	A2	A2	A2
	Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](http://www.cerl.eu)

Communication skills

He is curious and easy learning person, excellent in socializing and communicating.

- He is used to hold conferences or training courses
- He like team sports to share with other feelings, passions and targets. Friendship and loyalty also between colleagues are very important to him

Organisational / managerial skills

Great propensity and inclination towards working with others. Very good analysis and problem-solving capabilities.

- He managed teams composed up to 6 components

Job-related skills

He has certified experience in the following fields:

- Ground Segment Satellite Systems AIV / AIT process
- Integrity and timing user algorithms - to provide user performance support and system verification
- System architecture knowledge – to provide CFI / procurement support and management for hardware and software deliveries
- Interface integration & testing to verify system and manage the ICDs & verification tools
- Simulations – to define & run scenarios and assess the results for system level and End-to-End tests
- Search and Rescue definition and verification including the simulation of the system and algorithms
- Control, manage & report on assigned project Work Packages
- Performing Software Quality Assurance activities supporting developers through full life cycle to produce high value software
- Define quality objectives and project quality baseline
- Production the applicable Software Quality Assurance Plan, Quality Standards and Procedures
- Training the software team on established project quality baseline

- Support Software Project Management in defining/implementing overall software project processes, in the definition of the development logic and in the choice of methods/tools to be used
- Preparing and organizing Test Readiness Reviews and Test Review Boards
- Check correct application of the processes and the quality of the various items of the software product through inspections, reviews, audits, collection and analysis of metrics
- Chair and/or support reviews
- Approving all the project documentation

**Specific Activities:**

- Requirements engineering in DOORS. This includes review, specification and refinement of existing requirements, their up-traces to parent Ground Segment specifications, justifications and verification methods;
- Support to the procurement of payload data acquisition & processing elements by advising on technical solutions proposed by the responsible contractors, and by reviewing documentation to confirm its compliance with the requirements;
- Refinement of ICDs, especially those between payload data acquisition & processing elements and other GS functions;
- Support to the preparation and execution of the testing, integration and acceptance of procured elements;
- Support to the installation of ground segment elements at sites, and their integration into the overall Ground Segment system;
- Verification and validation (IV&V) of the integrated Ground Segment;
- Review of System, Space Segment and Ground Segment documentation dealing with requirements, concepts, algorithms and technical analyses of relevance for data processing, including review of calibration concepts defined by the Space Segment with emphasis on their implications on Ground Segment data processing concepts, interfaces and architecture;
- Participation in formal reviews and technical meetings at System and Ground Segment level.
- good command of quality control processes (currently responsible for quality audit)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Proficient user	Proficient user	Enter level

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Programming Languages:

C (not recent, during University studies), C++ (not recent, about 3000 code line produced, changes and debug), ADA83 (not recent, about 2000 code lines produced), Java (recent, about 2000 code lines produced) XML (recent, changes and debug), Perl (not recent, changes and debug), Tcl/Tk(not recent, changes and debug)

Tools/Suites

**EA (Enterprise Architect)**

HP ALM tool, Robot, Jenkins, Gerrit (current)

AGI STK

Kubernetes, OpenStack

VM Ware

National Instruments LABVIEW (recent, debug and change of PS-SCOE software), P-SPICE (as student: not recent), Etherheal (recent, as test tool), MathLab Simulink (recent, debug and changing of DAS subsystem software)

Rational Rose (2 years, not recent, production of the UML diagrams as USE CASES or Sequence Diagrams), DOORS (4 years, recent, requirements and changes tracking), Bugzilla (4 years, recent, bug management), HOOD Nice (2 years, not recent, to perform the modelling of some functions to

develop in ADA83)

Opencvs (4 years, recent, CM of LN1/2/3 product), MySQL (2 years, recent, as administrator) , JSynoptic (4 years , recent ,debug) , XML Spy (not recent , 2 years , used as test tool)

ATTOL Test (2 years, not recent, to perform unit tests), ADA probe (not recent, 2 years, to test some modules written in ADA83), JUnit (1 year, recent, unit tests on more than 20.000 code lines in Java language), VALID (not recent, 1 year, to perform system tests)

Understand C++ (1 year, not recent, to perform about 30.000 code lines metrics), Understand for Java (1 year, recent, to perform about 20.000 code lines metrics)

Eclipse (recent, 3 years, as Development Platform), Borland C++ Builder (not recent, during University studies), Microsoft Visual C++ (not recent, 1 year, as Development environment)

DOORS (recent as user)

Microsoft Office suite (current)

#### Operative Systems

Linux (recent, advanced), Unix Solaris 8 (not recent), UNIX Compaq Tru64 (not recent), LynxOS (not recent), VMS (as student)

Microsoft Windows NT/2000/XP/7/8/8.1/10

MAC OSX 10.x

#### Architectures (platforms)

ARM, I586, x86\_64, Alpha

#### Protocols

TCP/IP, SLE, COP, HTTP, FTP, SIP

#### Software Development Phases

Software/System Requirements Definition; Detailed Development, Test Integration Verification and Validation;

#### Standards

ISO9000, ECSS (E, M, Q) (advanced)

#### Electronic knowledge

- Expert on Networks in general with many jobs on various types of LAN and WAN networks: csma/cd, Ethernet, FDDI and Token Ring (also experience with 802.xx networks in general). Analogical and digital, cable or wireless telecommunications systems. Tools and equipment for videoconferences and video-communications. Control systems created using NI LabVIEW platforms. Radar (S.A.R, P.A.R), Kalman Filters, Solomon Coding

Darmstadt, 11<sup>th</sup> October 2022

Alessandro Lusardi







This is to certify that  
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