




PERSONAL INFORMATION

Carlo Marcelli

 Darmstadt - Germany
 +39 349 1057246
 carlo.marcelli@yahoo.com

Date of birth 2nd March 1964 | Nationality Italian

WORK EXPERIENCE

2019 – Present

AIV System Engineer

Rhea System GmbH – 7, Robert-Bosch-Strasse, 64293 Darmstadt, Germany

Present duty:

AIV System Engineer within the Meteosat Third Generation space program at EUMETSAT (European Organisation for the Exploitation of the Meteorological Satellites), concerning the development of the third generation of the Meteosat geostationary satellites for the Earth observation.

Performed activities:

Preparation of the test specifications and test procedures for the integration, verification and validation of the interfaces between the facilities composing the Ground Segment of the Meteosat Third Generation system.

Business or sector Space systems and sub-systems

2009 – 2018

Senior Software and Tester Engineer

Aerospace & Defence Company - Rome, Italy

Main performed activities:

Within the Phase 2 and Phase 3 Enhancement for the upgrade of the Eurofighter Typhoon combat aircraft commissioned by the European consortium led by Airbus, BAE Systems and Leonardo S.p.A.: member of the development and testing team of the Non-Safety Critical Armament Controller (NSCAC) CSCI;

performed duties:

- responsible for the software Unit tests and software/software Integration tests and related documents (Unit Tests Description/Report, Integration Tests Description/Report)
- software coding team support
- supervisor of the correct coding rules application according to the EuroFighter coding standard and production of the related Code Walkthrough Review document
- responsible for the HOOD (Hierarchical Object-Oriented Design) update of the NSCAC CSCI and production of the related Software Detailed Design document.

Business or sector Space and avionics software and electronics sub-systems

2004 – 2009

Spacecraft Operations Engineer

Thales Alenia Space Italia S.p.A. - 24, Via Saccomuro, Rome, 00131, Italy

Position held: Spacecraft Operations Engineer in the "Missions and Operations" department within the COSMO Sky-Med project commissioned by the Italian Space Agency, concerning the development, launch and operation of a satellite constellation for radar observation of the earth.

Main duties:

- preparation, in cooperation with the On-Board Software development team, of the flight operational procedures to control from the ground stations the satellite Integrated Control Subsystem;
- member of the launch and deployment operations team of the COSMO Sky-Med satellites during the Launch and Early Orbit Phase at Telespazio Fucino Space Center.

Business or sector Space systems and sub-systems

2000 – 2003 Software Product Assurance Engineer

Thales Alenia Space Italia S.p.A. - 24, Via Saccomuro, Rome, 00131, Italy

Position held: Software Product Assurance Engineer within the “R.A.M.S. (Reliability, Availability, Maintainability and Safety) and Software Product Assurance” department.

Main duties:

- Supervisor of the correct application of the software life cycle product assurance procedures within several space programs among which EUTELSAT Atlantic Bird 1 telecommunication satellite and ESA Galileo Navigation System
- Production of documents related to the Software Product Assurance (Software Product Assurance Plan, Software Product Assurance Report) according to ESA ECSS standards.

Business or sector Space systems and sub-systems

1993 – 2000 Software Developer and Analyst

Northrop Grumman Italia S.p.A. - Via Pontina Km 27,800, Pomezia (Rome), 00040, Italy

Position held: Software developer and analyst within the Research and Development department.

Main duties:

- Design, Coding and Testing of real-time software for inertial navigation systems
- Production of documents related to the software design and testing
- Analysis and simulations for evaluation of performances related to the software for inertial navigation systems.

Business or sector Avionics, naval and terrestrial inertial navigation systems

EDUCATION AND TRAINING

1984 – 1990 Master’s degree in Electronics Engineering

“La Sapienza” University – Rome, Italy

- Mathematical Analysis, Physics, Chemistry, Electronics, Theory of Electro-magnetic fields and their behaviour in waveguides and transmission lines, Microwave Remote Sensing, Radar, Antennas and Microwave Radio systems, Basis of Programming.

1978 – 1983 High School degree

“San Paolo” Linguistic High School – Orvieto, Italy

- English, French, German
- Italian, Mathematics, Physics, History, Philosophy.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	B1	B1	B1
German	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](https://www.cedefop.europa.eu/en/common-european-framework-reference-languages)

Communication skills

- good communication skills gained during my working experience. I've often worked in a team, so I've gained good communication capabilities with the other team members. Furthermore, as in several projects I performed my duties autonomously, I had often to directly communicate with the customers or external partners, and so I've acquired a considerable independence in performing my duties.

Organisational / managerial skills

- good organising skills gained during my working experience; good skills regarding the evaluation of the time required to complete an activity and then to organize the assigned tasks; gained good skills to interact and coordinate with the other program team members.

Job-related skills

- good knowledge of the software product life-cycle (design, development, testing, quality control processes)
- good knowledge of HOOD (Hierarchical Object-Oriented Design) and OOD (Object-Oriented Design) software design methodologies
- good knowledge of software testing methodologies
- good knowledge of ECSS-Q-ST-80C standard for Software Product Assurance
- good skills in developing test specifications and test procedures starting from the knowledge of system properties and the related requirements

Digital competence

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

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

- good command of office suite (Microsoft Word, Microsoft Excel, Microsoft Power Point)
- good command of C, C++, C#, ADA programming languages in Windows and Unix/Sun Solaris environments and for real-time applications
- good command of software coding and testing tools
- fairly good command of Rational DOORS tool
- good command of version control tools GIT and TortoiseSVN
- good skills in using the bug tracking and project management tool Atlassian Jira
- good skills in using satellite and ground segment facility simulators
- good skills in using Internet, browsers, email and social networks.

Driving licence Category B

ADDITIONAL INFORMATION

Courses

- Training on Model Based System Engineering + SYSML + SPARX Enterprise Architect – May 2021