



Main activities and responsibilities	Galileo Phase C0 ESA Study (co-location at Galileo Industries, now ESNIS European Satellite Navigation Industries): <ul style="list-style-type: none"> <li>Member of Alenia System Verification Team supporting the activities of Galileo In Orbit Validation (IOV) Test Campaign Definition and Pass/Fail Criteria Identification for Galileo System Verification and Acceptance</li> <li>Responsible of the Work Package defining the Technical Implementation of the Timing Interface between Galileo and GPS Systems for Time Scales Offset Determination (GGTO)</li> </ul>
Name and address of employer	Alenia Spazio S.p.A., Via Saccomuro 24, 00131 – Rome, Italy
Type of business or sector	Aerospace Industry
Dates	Jan 2003 – Nov 2003
Occupation or position held	Navigation System Engineer
Main activities and responsibilities	Galileo System Test Bed (GSTB V1) <ul style="list-style-type: none"> <li>System Engineering Responsible for Clock Model Performance Assessment Test Case Experimentation in GSTB V1</li> <li>System Engineering Responsible for software development of Analysis Tools for time synchronization facility dimensioning and performance assessment</li> </ul>
Name and address of employer	Alenia Spazio S.p.A., Via Saccomuro 24, 00131 – Rome, Italy
Type of business or sector	Aerospace Industry
Dates	July 2002 – Jan 2003
Occupation or position held	Navigation System Engineer
Main activities and responsibilities	Galileo System Test Bed (GSTB V1) <ul style="list-style-type: none"> <li>Overall GSTB V1 System Specification responsible</li> <li>Responsible for the Work Package relative to the Technical Coordination of GSTB V1 with Galileo main program</li> </ul>
Name and address of employer	Alenia Spazio S.p.A., Via Saccomuro 24, 00131 – Rome, Italy
Type of business or sector	Aerospace Industry
Dates	Jan 2002 – July 2002
Occupation or position held	Navigation System Engineer
Main activities and responsibilities	Galileo Phase B2 ESA Study: <ul style="list-style-type: none"> <li>System Design Manager for Galileo Precise Timing Station (PTS) design and requirements identification c/o Galileo Industries</li> </ul>
Name and address of employer	Alenia Spazio S.p.A., Via Saccomuro 24, 00131 – Rome, Italy
Type of business or sector	Aerospace Industry
Dates	June 2001 – Jan 2002
Occupation or position held	Navigation System Engineer
Main activities and responsibilities	Galileo Phase B2 ESA Study: <ul style="list-style-type: none"> <li>Support to the Galileo Architecture Definition, with reference to Time Synchronization Design and Trade-off activities</li> <li>Responsible of the Work Package designing the Two-Way Clock Comparison capability as part of the TT&amp;C transponder functionality c/o Galileo Industries</li> </ul>
Name and address of employer	Alenia Spazio S.p.A., Via Saccomuro 24, 00131 – Rome, Italy
Type of business or sector	Aerospace Industry
Dates	May 2000 – June 2001
Occupation or position held	Navigation System Engineer
Main activities and responsibilities	Hired in Alenia Spazio S.p.A. in May 2000. GalileoSat System Test Bed (GSTB): <ul style="list-style-type: none"> <li>System Engineer in GalileoSat System Test Bed (GSTB) Project</li> <li>Responsible of the GSTB Mission Requirements</li> </ul>
Name and address of employer	Alenia Spazio S.p.A., Via Saccomuro 24, 00131 – Rome, Italy
Type of business or sector	Aerospace Industry

## Education and training

Dates Nov2007– Feb2008  
 Principal subjects/occupational skills covered Thales Alenia Space Course “Crossing Path” with the following arguments:
 

- Economics
- Project Management
- Teamworking
- Leadership
- Problem Solving

 Name and type of organisation providing education and training Thales Alenia Space Italia S.p.A.

Dates Oct 2003 – Apr 2004  
 Principal subjects/occupational skills covered Alenia Spazio Course on Program Management with the following arguments:
 

- Overview on the Project Management Process
- Sourcing and Subcontractors Management
- Contractual and Legal Aspects of Subcos Management
- Risk Management
- Proposal Preparation Process

 Name and type of organisation providing education and training Alenia Spazio S.p.A.

Dates April 2000  
 Title of qualification awarded M.S. Degree in Telecommunication Engineering  
 Principal subjects/occupational skills covered Among others:
 

- Radio Navigation System
- Propagation
- Electromagnetic Field
- Numerical Elaboration of Signals
- Signals Theory
- Information Technology
- Electrical Communications

 Degree Thesis carried out at Istituto Elettrotecnico Nazionale “Galileo Ferraris” (IEN) on “Errors of Atomic Frequency Standards on-board Modern Navigation Satellite Systems”.  
 Name and type of organisation providing education and training Politecnico di Torino

**Personal skills and competences**

Mother tongue(s) **Italian**

Other language(s)

Self-assessment  
*European level (\*)*

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
(C1)	Proficient User	(C1)	Proficient User	(C1)	Proficient User	(C1)	Proficient User	(B2)	Independent User
(B2)	Independent User	(B2)	Independent User	(B2)	Independent User	(B2)	Independent User	(B1)	Independent User

(\*) *Common European Framework of Reference for Languages*

Social skills and competences  
 Enjoy travelling  
 Enjoy meeting different cultural models  
 Flexibility and adaptation

Organisational skills and competences  
 Leadership  
 Teamworking  
 Punctuality  
 Self motivation

Technical skills and competences  
 Good expertise in Navigation Issues

Computer skills and competences	<p>OPERATING SYSTEMS. Good knowledge of the followings:</p> <ul style="list-style-type: none"> <li>▪ Windows 95/98/ME/2000/NT/XP/2003</li> </ul> <p>SOFTWARE STANDARDS. Good knowledge of the followings:</p> <ul style="list-style-type: none"> <li>▪ ESA – ECSS Software Engineering Standards</li> <li>▪ Galileo Software Standards</li> </ul> <p>PROGRAMMING LANGUAGES. Good knowledge of the followings:</p> <ul style="list-style-type: none"> <li>▪ C/C++</li> <li>▪ Matlab</li> </ul> <p>SOFTWARE APPLICATIONS. Good knowledge of the followings:</p> <ul style="list-style-type: none"> <li>▪ Microsoft Office (Word, Excel, Power Point),</li> <li>▪ Microsoft Visio,</li> <li>▪ Microsoft Project,</li> <li>▪ Telelogic DOORS-TREK,</li> <li>▪ Matlab,</li> <li>▪ Satellite Toolkit Pro</li> </ul>
Artistic skills and competences	<ul style="list-style-type: none"> <li>▪ Painting</li> <li>▪ Mosaic creations</li> </ul>
Driving licence	Driving Licence B
<b>Additional information</b>	<p>FELLOWSHIP AND AWARDS</p> <p>September 2006 Alcatel Alenia Space Innovation Award 2006 Winner with project “SynchroNet: A Multi-Purpose Network Synchronization System”</p> <p>Filing of Patent for Synchronet on December 2007</p> <p>In 2005 selected within the 15 HighPotential people in the Finmeccanica Group</p>

Course and seminars held as Lecturer:

May 2007: "Time for Navigation and Synchronization Systems" Course in the frame of the Thales Alenia Space Italia – Space Academy activities. Main arguments of the course held:

- A Walk through Time
- International Time References
- Time transfer techniques: an overview
- Time Traceability
- Time Synchronization for Navigation
- Time & Frequency analysis techniques
- Timing technology & equipments

Dec 2006: "Space System Engineering" Course in the frame of the Alcatel Alenia Space Italia – Space Academy activities. Main arguments of the course held:

- Space Mission Analysis
- Space System Engineering
- Segments Engineering
- System Integration & Verification

June 2006 and November 2005: "Advanced Communication & Navigation Satellite Systems", MASTER of "Tor Vergata" University of Rome and "Satellites and Orbiting Platform", MASTER of "La Sapienza" University of Rome respectively. Main arguments of the course held:

- Introduction to Satellite Navigation
- Overall GNSS Systems Architecture
- Performance Aspects of GNSS
- Space Based Aspects of GNSS
- User Terminal Aspects of GNSS
- The Galileo Test Range (GTR) Initiative

April-May 2005: Held the Alenia Spazio CREST course in the Roma and Torino premises. Main arguments of the course:

- Theory of Satellite Navigation
- The existing Satellite Navigation Systems
- The Augmentation Systems
- The Galileo System
- The GSTB-V2 Experimental Satellite

(co)authored more than 20 publications on different aspects of the satellite navigation, including Time Synchronization and navigation performance aspects

## Annexes

List of publication as per annex

## Annex: Publication

- [01] *"UERE Budget Characterization During the Galileo IOV Test Campaign"*,  
ION NTM 08 Conference, 28 –30 January 2008, San Diego, California
- [02] *"GNSS Signal Monitoring Facility: A Performance Monitoring Asset"*,  
ION NTM 08 Conference, 28 –30 January 2008, San Diego, California
- [03] *"GNSS Signal Monitoring Facility: a Performance Monitoring Asset"*,  
NAV 07 Navigation Conference, 30 October – 1 November 2007, Royal Institute of  
Navigation, London, United Kingdom
- [04] *"GNSS Signal Monitoring Laboratory Facility at AAS-I Premises: an overview"*,  
2<sup>nd</sup> Workshop on GNSS Signals & Signal Processing – GNSS SIGNALS'2007,  
24 – 25 April 2007, ESTEC The Netherlands
- [05] *"Galileo IOV System Initialization and LCVTT Technique Exploitation"*,  
ATTI dell'Istituto Italiano di Navigazione, n°185, January 2007
- [06] *"Common-view Technique Application: An Italian Use Case"*,  
ATTI dell'Istituto Italiano di Navigazione, n°185, January 2007
- [07] *"Galileo IOV System Initialization and LCVTT Technique Exploitation"*,  
38<sup>th</sup> Annual Precise Time and Time Interval (PTTI) Systems and Applications Meeting,  
Reston, Virginia, December 5 – 7 2006
- [08] *"GALILEO, il Servizio di Navigazione Satellitare Europeo"*,  
Convegno Nazionale AEIT, 16–20 September 2006, Capri (Italy)
- [09] *"Sincronizzazione di reti con tecniche di Common-view tramite segnali Galileo e GPS"*  
Convegno Nazionale AEIT, 16–20 September 2006, Capri (Italy)
- [10] *"GALILEO IOV System Initialization and LCVTT Technique Exploitation"*  
2006 Tyrrhenian International Workshop on Digital Communications – Satellite Navigation  
and Communications Systems, 6–8 September 2006, Island of Ponza (Italy)
- [11] *"Common-View Technique Application: an Italian Use Case"*  
2006 Tyrrhenian International Workshop on Digital Communications – Satellite Navigation  
and Communications Systems, 6–8 September 2006, Island of Ponza (Italy)
- [12] *"Galileo Performance Verification in IOV Phase"*,  
2006 Tyrrhenian International Workshop on Digital Communications – Satellite Navigation  
and Communications Systems, 6–8 September 2006, Island of Ponza (Italy)
- [13] *"The In-Orbit Verification of Galileo System"*,  
2<sup>nd</sup> International Workshop on Verification and Testing of Space Systems,  
Torino 22 March 2006

- [14] *“Galileo: the European Satellite Navigation System”*,  
ATTI dell’Istituto Italiano di Navigazione, n°178, March 2005
- [15] *“Galileo Performance Verification in IOV Phase”*,  
The European Navigation Conference GNSS 2005, Munich, Germany
- [16] *“Clock Model for GSTB V1 Clock Prediction Performance Assessment Experimentation”*,  
European Time and Frequency Forum EFTF 2004, University of Surrey, UK
- [17] *“The Experimental Precise Timing Station and the Galileo System Time generation in the Galileo System Test Bed Phase V1”*,  
GNSS2003 Global Navigation Satellite Systems , Graz, Austria
- [18] *“Assessment of different clock models for Galileo System Synchronization”*,  
IV Time Scales Algorithms Symposium, 2002, BIPM, Sevres
- [19] *“Timekeeping in the future Galileo GNSS2 system”*,  
V GNSS International Symposium (GNSS 2001), Seville
- [20] *“GalileoSat System Test Bed: A Unique Opportunity To Test Synchronisation Techniques”*,  
EFTF 2001, March 2001, Neuchatel, Swiss
- [21] *“Uncertainty and prediction of clock errors in space and ground applications”*,  
European Time and Frequency Forum 2000, Tourin