

PERSONAL INFORMATION

Julio A. Monreal Hijar

PREFERRED JOB

International Project Management

WORK EXPERIENCE

01/08/2006–Present

Project Manager - Ariane 5 Operational Launch System

European Space Agency - Launchers
8-10 rue Mario Nikis, F-75015 Paris (France)

Ariane 5 launch system qualification status monitoring, verification and maintenance; sustaining engineering

Achievements:

- Successful setup of integrated project teams between ESA and several National Space Agencies;
- Definition of rules and tools for an efficient implementation of the Ariane 5 Qualification Monitoring and Verification activities;
- Implementation of best practices on Project Control and Configuration Control;
- Contribution to the successful and on-time launch record of the European launch system Ariane 5

Business or sector Space technologies & applications

01/03/2003–31/07/2006

Head of Operations Support - Ariane 5 launch system

European Space Agency - Launchers
8-10 rue Mario Nikis, F-75015 Paris (France)

Ariane 5 launch system operations; support to institutional spacecraft projects; ground infrastructures

Achievements: Definition of the process for the follow up and reporting on the launch campaigns reviews and launch results

Business or sector Space technologies & applications

01/06/1998–28/02/2003

Senior System Engineer

European Space Agency - Human Space Flight and Exploration
Keplerlaan 1, NL-2201 AZ Noordwijk (Netherlands)

Design and verification of interfaces between the Automated Transfer Vehicle (ATV) and Ariane 5 launch system; ATV vehicle propulsion subsystem

Achievements: Review and modification of the Ariane 5 launcher baseline configuration for the ATV specific mission to ensure a safe and reliable low orbit injection

Business or sector Space technologies & applications

01/06/1993–31/05/1998

Operations Manager - Ariane launch range

CNES - Guiana Space Centre (Europe's Spaceport)
97387 Kourou (French Guiana)

Launch range operations coordination; support to spacecraft preparation; range systems coordination for Ariane launches

Achievements:

- Definition of the interfaces between the launch range and the new Ariane 5 launch system;
- Launch Range Director for 6 Ariane launches including the 2nd Ariane 5 launch;
- Contribution to the definition of the general layout and specifications of the new payload processing facilities for the ATV and spacecraft constellations

Business or sector Space technologies & applications (Launch operations)

01/03/1989–31/05/1993

Project Engineer - Payload / Launcher interfaces

European Space Agency - Space Transportation Systems
8-10 rue Mario Nikis, F-75015 Paris (France)

Specification and verification of interfaces between ESA's spacecraft and Ariane launch system

Achievements: Specification and verification of payloads interfaces for Ariane 5 qualification flights

Business or sector Space technologies & applications

01/10/1984–28/02/1989

Technical Manager (Also: Consultant Engineer for the IFP)

SKF Española S.A.
Avda. de Manóteras, 20, E-28050 Madrid (Spain)

Product Engineering & Quality Assurance; technical coordination with SKF companies world wide

Achievements: Upgrading of the technical means and processes:

- for design (CAD implementation) and
- for testing (computer controlled test benches implementation)

Business or sector Design and manufacturing of bearings

01/10/1982–30/09/1984

Research Engineer

Institut Français du Pétrole
1-4 av. de Bois-Préau, F-92506 Rueil Malmaison (France)

Development of Laser diagnostics applied to internal combustion engines research

Achievements: Design, assembly, verification and operation of the first test bench in Europe for aerodynamic measurements in the combustion chamber of an internal combustion engine

Business or sector Research on energy, transport and environment

EDUCATION AND TRAINING

01 January 1980–30 September
1982

PhD in Energy

EQF level 8

Faculté des Sciences et Techniques de Saint-Jérôme (Université d'Aix-Marseille III), Marseille (France)

Overall energy physical fundamentals and technologies; combustion stability studies using Laser diagnostics (Laser Velocimetry & Tomography)

Doctoral Lecture: "Gas-Flame Front velocities correlation on a slightly turbulent premixed flame"

01/09/1972–09/03/1979

Aeronautical Engineer; PhD in Aeronautics (1983)

EQF level 7

Escuela Técnica Superior de Ingenieros Aeronáuticos, Madrid (Spain)

Mechanics & fluid mechanics, thermodynamics, aerodynamics, aircraft and spacecraft design, production processes, business management

End studies project: "Landing on the Moon using a bipropellant hypergolic propulsion system"

PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	C2	C2	C2	C2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Team spirit;
- Ability to adapt to multicultural environments, gained through my work experience abroad;
- Communication and management skills, gained through training and through my experience in management.

Organisational / managerial skills

- Team leadership;
- Sense of organisation and coordination;
- Wide experience in programme/project management; project control; configuration control.

Job-related skills

- Good command of technical matters at system level (i.e.: complex systems development & qualification, mechanical dynamics, thermodynamics, cryotechnics, signal processing, operations);
- Experience in Quality Assurance and Safety standards through my work experience and training (i.e.: involved in ISO 9001 exercises, implementation of design and operations safety standards).

Computer skills

- Good command of "Microsoft Office" tools

Other skills

- Aircraft private pilot;
- Scuba diving;
- Trekking;

Driving licence

B

ADDITIONAL INFORMATION

Seminars

- Advanced Leadership programme (3+3 days training). ESA Internal University / Mannaz, Sep & Dec 2014, Koln (Germany),
- Seminar on IPSAS Accounting for Managers (1dayseminar): "PwC", Oct 2013, Paris (France);
- Seminar on European Union Institutions and space policy (1dayseminar): "PACT", Sep 2013, Paris (France);
- Trainings on leadership development and management:
 - > Leading Change (2 days training): "Oxford Group", June 2010, Brussels (Belgium);
 - > Leadership Development – Managing Self & Others (2+2 days training): "Oxford Group", May & July 2005, Brussels (Belgium);
 - > Fundamentals of People Management (1weektraining): "Management Centre Europe", October 2003, Brussels (Belgium);
- Designing Cost-Effective Space Missions (1 week training): "ESA/ESTEC", February 2000, Noordwijk (The Netherlands).

- Training on Cryotechnic Fluids (1 week training): "Air Liquide", December 1996, Kourou (French Guiana).

- Publications**
- Monreal J, Tolker-Nielsen T,
"Ariane5 Operational Launch System Project", European Project Management Forum – DLR, Cologne, Germany, July 2013
- Chemoul B, LeStrat D, Tolker-Nielsen T, Monreal J,
"Ariane5 flight worthiness validation by the independent qualification authority", 59th International Astronautical Congress - Glasgow, Scotland, United Kingdom, October 2008
- Monreal J, Laine R, Amadiou P,
"ATV re-entry and potential return capabilities", 3rd International Symposium Atmospheric Re-entry Vehicles and Systems - AAAF, Arcachon, France, March 2003
- Baritaud T, Trapy J, Monreal J,
"Effects of swirl and combustion on the fluid motion in an I.C. engine", 3th International Symposium on Applications of Laser Anemometry to Fluid Mechanics - Lisbon, Portugal, July 1986.
- Searby G, Sabathier F, Monreal J, Clavin P, Boyer L,
"The feed-back of a flame front on turbulent flows", 9th International Colloquium on Combustion and Reactive Systems - Poitiers, France, 1983.
- Searby G, Monreal J, Clavin P, Boyer L,
"Experimental study of velocity correlations gas-front in a weakly turbulent premixed flame", Société Française de Physique - Clermont-Ferrand, France, 1981.

- Appointments**
- Appointed expert member of the Executive Committee of the European Union Joint Undertaking for ITER and the Development of Fusion Energy (F4E) since March 2014.