

PERSONAL INFORMATION

Alberto Blanch Romero

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Sex Male | Date of birth 04/06/1979 | Nationality Spain

PROFESSIONAL EXPERIENCE

September 2011 – Present

ATM Engineer

Servicios y Estudios para la Navegación Aérea y la Seguridad Aeronáutica (SENASA), Madrid, www.senasa.es.

Responsible for developing technical proposal of Initiative Towards sustainable Kerosene for Aviation (ITAKA), awarded with 10M€ EC FP7 grant.

Responsible for Future Trends chapter of the Spanish Annual Aviation Sustainability report.

Responsible for participating in ANCAT's Modelling and Interdependencies Task Group (MITG).

Responsible of environmental modelling in the Observatory of sustainability in Aviation (OBSA):

- ITAKA Scale Up Model (ISUM). Responsible for management and development of the model. ISUM describes the feasibility of implementing a Hydro-treated Renewable Jetfuel (HRJ) value chain in Europe meeting sustainability criteria (EU RED-RSB). Responsible for state of the art research in camelina oil production, logistics, and HVO conversion processes.

- SATISFIED, (AIRE programme) Responsible for executing the Environmental Impact Assessment. This is being achieved by creating a model that calculates cruise emissions based on BADA parameters, implementing efficiency gains shown in live trials, and extrapolating to the SAM corridor traffic.

- Participation on incipient EC FP7 CSAs Forum AE (ATM environmental impact) and CORE-JetFuel (ATM and green operations).

Aeronautics R&D

March 2008 – Present

ATM Researcher

Innaxis Research Institute, Madrid. www.innaxis.org.

Research and development of projects providing expertise in air traffic control operations, air traffic management modelling, safety assessment, and performance analysis.

Projects include:

- CASSIOPEIA: Responsible for technical management of Cases 1 & 3 (Application of curfews on top10 European airports, and Dynamic Cost Indexing). Responsible for designing logical architectures. Research on airline operations, especially on delay costs and schedule recovery management. Developed approximation for the calculation of airlines' schedule recovery costs.

- Research of the SESAR paradigm in different projects (Atlántida, Episode 3, NECO).

- Consulting services for Eurocontrol developing the Emissions Trading Scheme methodology.

- Specialized in Trajectory Based Operations (TBOs), and State of the art analysis including SESAR and NextGen.

- Research in airline management scheduling problems and optimization strategies.

Aeronautics R&D

July 2010 – February 2011

CNS Safety and Verification Engineer

ISDEFE – Technical assistance at AENA, Madrid. www.isdefe.es, www.aena.es.

CNS systems division verification.

- Verification of compliance with Single European Sky and the European Commission Regulations; specifically 2096/2005 laying down the common requirements, 1315/2007 on safety oversight, and 552/2004 on ATM interoperability.

- Safety management of new installations of communications-navigation-surveillance systems (CNS).

Aeronautics ANSP

November 2005 – February 2008

Air Traffic Controller

Eurocontrol, IANS/MUACC – Luxembourg and Netherlands. www.eurocontrol.int.

Training for Air Traffic Control in the Maastricht Upper Area Control Centre.

Live and Simulated traffic training for Area Surveillance Radar ATC License

Training in Area Operations in the upper airspace of Belgium, Luxembourg, The Netherlands, and the Western part of Germany.

Responsible for the safe and efficient flow of traffic, providing Air Traffic Control Service, Aeronautical Information Services, and if needed Search and Rescue Services.

Aeronautics ANSP

March 2004 – October 2005

Project control engineer

Nissan Technical Centre Europe (Spain), Madrid. www.nissan.com.

January 2002 – July 2003

Mechanical design engineer

Motorola – Miami, USA. www.motorola.com.

EDUCATION AND TRAINING

February 2011 – August 2011

License, Air Traffic Control Student License

Servicios y Estudios para la Navegación Aérea y la Seguridad Aeronáutica S.A. (SENASA)

ADI and ADV ratings, with GMC, RAD, TWR and AIR endorsements.

August 2010 – July 2011

License, Air Traffic Control Student License

Institute of Air Navigation Services (Eurocontrol)

ACS rating RAD endorsement

October 2003 – June 2005

Master, Automotive Engineering

Universidad Politécnica de Madrid (Spain)

Masters in Automotive Engineering. 600h. Masters specialized in the study and knowledge of the main areas of the automotive industry activities:

- Design, Theory of vehicles, Engines and fuels, systems and components, technical software, electronics and instruments, and new materials).

- Manufacturing (Industrial implementation, Production management, Purchases and Logistics)

January 2000 – July 2003

License, Commercial Pilot, IFR, ME ratings

ADF Airways Flight Academy, Miami, USA

More than 200 h. in C172 and PA23. 150h as PIC.

August 1997 – August 2002

Bachelor, Mechanical Engineer

Florida International University, Miami, USA

Main Project:

- Original Design and Mechanical and Thermodynamic analysis of rotary internal combustion engine. Design in Pro/Engineer and Pro/Mechanica, analysis in MathCAD (CAD/CAE/CAM).

Activities and Societies: American Society of Mechanical Engineers.

PERSONAL SKILLS

Mother tongue(s)

Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Fluent	Fluent	Fluent	Fluent	Fluent
French	Beginner	Beginner	Beginner	Beginner	Beginner
9 years living in USA.					

- Communication skills** Good communication skills in multicultural environments gained through my experiences abroad (9 years in USA and 3 in BENELUX)
- Job-related skills** Good presence, responsible, motivated by process and resources optimisation.
- Computer skills**
- Microsoft Office™ (Word, Excel, PowerPoint, Project).
 - C, R, Matlab, PTC Creo, PTC MathCAD, AutoCAD, Python, CATIA V5, ABAQUS, ANSYS, G (CNC), C++.
- Additional information**
- Available with 2-weeks notice.
 - Willing to relocate worldwide. Willing to travel.
 - EU working permit.
 - Driving license. Own car.
 - Military service exempted.
 - Civil status: married, one child.