



# Professional profile with research focus

Marko Radanovic

**Open Application**

Ineco

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# Academic and professional record

## Academics:

- September 2011 – September 2012
- II Level Specializing Master in Navigation and Related Applications - MNRA (“IL MASTER UNIVERSITARIO DI II LIVELLO in NAVIGATION AND RELATED APPLICATIONS”)
- Politecnico di Torino, Department of Electronic and Communications Engineering
- Principal subjects covered: Global Navigation Satellite Systems (GNSS), satellite-based and ground-based augmentations (SBAS, GBAS), positioning technologies, environmental applications to GNSS technology, GNSS receivers, GNSS applications to different sectors (aviation, timing, remote sensing)
- March 2008 – September 2008
- Certificate of Completed School of Reserve Military Officers
- Belgrade Military Academy, University of Defense, Republic of Serbia
- Military aerospace technologies and technical competences – Surveillance and Aeronautical Communications (higher specializing courses)

# Academic and professional record

- October 2000 – November 2007
- Graduate Engineer in Air Transport and Traffic Engineering (Equivalence of M.Sc. degree, five-year study programme)
- University of Belgrade, Faculty of Transport and Traffic Engineering
- Principal subjects covered: air transportation systems (aircraft, airports, ATM infrastructure), air traffic control and management (ATC/ATM), airport management and operations (terminal and en-route), air transport networks (route planning and optimization), air cargo transportation, aircraft performance, flight dynamics and control, flight mechanics, ground and airborne radio-communication equipment, environmental impacts and meteorology in air transport, etc.

## Employment track:

- December 2012 – Present
- GSSA Operations Manager
- R-BAG Serbia d.o.o., member of R-BAG Group, CEE GSSA
- Main activities: cargo management activities - operations and sales, airline representation at both passenger and cargo sites, network management, fleet and capacity management, pricing and ticketing services.

# Academic and professional record

- June 2010 – September 2011
- Position: Air Freight Operations Specialist
- DHL Global Forwarding d.o.o. (Belgrade branch)
- Main activities and responsibilities: air cargo dispatch monitoring, analysis of air cargo flow capacities, statistical performance assessment, route maps planning and updating, electronic confirmations of flight operations, improvement of logistics procedures, communication and co-operation with airlines regarding the shipment statuses
- January 2009 – May 2010
- Position: Air Forwarding Specialist
- Kuehne+Nagel Serbia d.o.o.
- Main activities: shipment status monitoring, software confirmations of flight departures, air freight rates calculations and updates for major airlines, forwarding chain development
- September 2007 – February 2008
- Professional traineeship
- AVIOGENEX - Air charter airline, Division of Flight Operations
- Professional practice as a part of the university education, duties: work on the airline's navigation flight plans, air traffic dispatch and aircraft fleet performance calculation

# Research activities

- May 2007 – November 2007
- Graduation thesis: “Precision Area Navigation (P-RNAV) and Required Navigation Performance (RNP) for Departures”
- University of Belgrade, Faculty of Transport and Traffic Engineering
- Context: the thesis was developed with a focus on Performance-Based Navigation (PBN) concept, definition of RNAV and RNP systems performance requirements in terms of accuracy, availability, integrity and continuity as the key performance requirements; RNAV SID (Standard Instrument Departure) procedure design, the airport capabilities for terminal procedures (take-off, climbing and en-route phases), navigation system specification (conventional nav aids vs. GNSS infrastructure), waypoints and trajectory management
- June 2012 – September 2012
- Master thesis - pilot project: “ Planning, conduction and evaluation of GBAS flight trials”
- Braunschweig University of Technology, Institute of Flight Guidance (IFF)
- Context: the project identifies the innovative and upgraded implementation of a Ground-Based Augmentation System (GBAS) for high precision approaches and landings; it focuses on evaluation of the GBAS flight trials covering curved approaches with GAST-C (GBAS Approach Service Type – C) corresponding to the ILS CAT I precision approach development of the simulation environment and design of the approach procedures;

# Research interests and competences

## Interests:

- Communication, Navigation and Surveillance / Air Traffic Management (CNS/ATM) systems and infrastructure analysis; avionics systems
- Air Traffic Control (ATC) automation and processes
- Air transport operations and procedures (airport surface, TMA, En Route, Oceanic)
- Flight guidance, simulation and trials; Air traffic safety
- Global Navigation Satellite Systems (GNSS) technology and applications
- Satellite-based and ground-based augmentation systems (SBAS and GBAS)
- Human factors in civil aviation

## Competences:

- Raw data recording, implementation and evaluation; parameters decoding using appropriate software toolset
- Procedure design and assessment, development of simulation environment and techniques; technical drawing and graphical presentation
- Project management, statistical presentation of the obtained results

# Contact details:

## **Marko Radanovic**

Nasticeva 21  
11030 Belgrade  
Serbia

Tel: +381-11-2380357

Mobile: +381-64-146-4493  
+381-64-007-9982

Email: [radanovicm@ikomline.net](mailto:radanovicm@ikomline.net)  
[markoradan@gmail.com](mailto:markoradan@gmail.com)