

Didier BRAMBAN

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E-mail: didier.bramban@wanadoo.fr**English:** Day to day use in professional context

44 years old (16/05/1973)

Civil Partnership – 1 child

French citizenship

Category B driving licence

Ile-de-France region mobility

ON-BOARD SYSTEM PROJECTS MANAGER**Contracting Part, Project Owner, Response to Call for Tenders****Project Management: Operational follow-up, team management, selection and monitoring of suppliers****Steering international consortium agreements including industrial, SME, academic partners****V Cycle knowledges for developing airborne on-board systems****Aviation certification process knowledges: ARP4754/4761, DO-254, DO-178B, DO-160, IEC-61508****PROFESSIONAL EXPERIENCE****From 2010: Airbus Group SAS – Airbus Group Innovations (AGI)****R&T Projets Manager – Programme and Project Management****Scope:** Managing Projects scopes and set-ups and steering collaborative projects – **Operational Management:** 5 to 10 Engineers – **Budgets:** 100 k€ to 2.6 M€**Issues:** Innovative solution Development of Structural Health Monitoring Systems (HMS), Energy harvesting and hybridisation propulsive architecture, demonstrators' delivery.

- Plan d'Investissement d'Avenir – Cooperative project for the study of systems concept and acoustics improvement –P6 CORALIE from EPICE platform (CORAC) for AI - Duration: 54 months – AGI Budget: 2.6 M€ - Development of Health Monitoring System solution and in-flight demonstration – Delivered on QCD in 2017
- EUREKA European Program– Cooperative project Role Centric Identity – Project coordinator on behalf of A-DS - Consortium:11 partners - Duration: 36 months - Budget: 17M€ (including 3€ for ADS) – Improvement of Role-based Access Control (RBAC) in the information system and providing innovative functionalities based on Role - Notification and launching phase: Public safety and Healthcare uses cases finalisation
- Subcontracting project Green Installation Motrice Innovante GIMI – Health & Usage Monitoring Systems – DGAC – Duration: 24 months - Budget: 200k€ from Airbus helicopters - Evaluation of needs to acquire information from acoustic sensors in order to reinforce the robustness and increase the diagnostic capacity of future systems – Delivered on time in 2012 and in conformity with customer needs
- DGAC cooperative project to study the benefits of new hybrid propulsion systems (HYBRID AERO) - AGI project coordinator – Consortium: 8 partners – Duration: 19 months - Budget: 3M€ (500 k€ for AGI) – Architectural system study for Hybrid Propulsion at light fixed and rotary wing aircraft level - Delivered on QCD in 2015
- DGAC cooperative project to study the benefits of new hybrid propulsion systems (SPHÈRE) for Airbus Helicopters (continuation of the HybridAero project) – A-H project coordinator - Consortium: 4 partners - Duration: 60 months - Budget: 23M€ (1.2 M€ for AGI) – Notified / On-going
- DGAC cooperative project to control conducted emissions for power electronics (MECEP) – AGI project coordinator - Consortium: 11 partners - Duration: 48 months - Budget: 4.6M€ (450 k€ for AGI) - Study of margins and deviations on the levels of conducted emissions in order to improve their control during the definition phase of system architectures or the design phase of embedded power equipment - Notified / On-going
- **Contribution to set-up Financial Support dossiers and/or responses to call for tenders up to administrative deposits and Projects launch**
 - Projects analytic structuring: writing management plans, defining and consolidating workpackages, identifying key milestones/indicators, shaping planning, cost budgeting in collaboration with experts in charge of works → WBS, Workpackage sheet, Costs, Gantt
 - Managing industrial, SME, academic partners for establishing administrative dossier → collecting techno-economic data, workpackage descriptions, budget estimation
 - Preparing contracts with the Public Contract Department support → Interface with the Administrations: DGAC Financial Support dossiers and DGA: Special Technical Clauses of the convention
 - Consolidating confidentiality and consortium cooperation agreements with the Legal Department support → Identifying backgrounds and foregrounds, defining steering committees rules
- **Operational Projects Steering**
 - Following-up works progress: tracking milestones, phase reviews, budget controlling,
 - Following-up internal and contractual deliverables (alert in case of delay)
 - Identifying and monitoring risks – managing specific meetings to mitigate the risk – preparing change requests
 - Coordinating partners contributions
 - Writing internal and external regular reports for the stakeholders: reviews, steering committees an coordination committees

01/2005-12/2009 Airbus Group SAS – EADS Innovations Works (IW)

Suresnes

Validation and Verification Leader – Validation and Verification for On-board Systems Engineering

Scope: Responsibility for Validation and Verification activities assigned to on-board information systems security (DAL-C & DAL-D) at aircraft level within A380 program, in response to CRI-21 – **Operational Management:** 5 to 10 Engineers (Analog and Digital Electronics, embedded software, Networks communication) – **Annual budget:** 1.2 M€

Issues: Malevolent and malicious threats identification and evaluation (reviews, analyses, tests) for 10 à 15 systems – Non-conformities assessment with respect to standards and/or best practices in system architecture, design and implementation

- **Response to Call for Tender – Needs analysis : objectives and scope clarification in interface with Airbus customer:** defining the strategy for security activities of systems and equipment, writing techno-commercial proposals, plans for V&V, quotation with the financial department support
- **Operational Follow-up :** Coordinating Technical activities of reviews, analyses, tests and internal and external test means development - identifying and analysing performance, time, cost deviations - Delivering to Airbus Security Team Security audit results reports and vulnerabilities sheets for correction
- **Tenders development:** Providing a static analysis tool for C source code by abstract interpretation (formal proof) – Providing an interactive avionic network packets manipulation tool: ICMP, IP (IP fragmentation), UDP, SNMP, AFDX/ARINC 429, TFTP/ARINC 615 A, PFTP/APOTA, Interactive Bite ABD0100.1.4 (AFDX/ARINC 429), ARINC-665 – Training sessions achievement

08/2001-12/2004 Airbus Group SAS – EADS CCR

Suresnes

On-Board Systems Engineer – On-board Systems Engineering (DAL-C)

Scope: Technical, budget and scheduling responsibility for functional studies, designing and developing on-board systems for Health Monitoring Systems-based on acoustic emission techniques for Airbus – **Operational Management:** 2 to 3 Engineers–**Annual Budget:** 25 man-months per year

Issues: Innovative solution Development of Structural Health Monitoring Systems (HMS) for diagnosis and prognosis needs for Predictive maintenance use

09/1999-07/2001 TEUCHOS EXPLOITATION SA

Versailles

Automatic Engineer posted to Aérospatial Matra CCR – On-board Systems Development

Scope: Optimising active vibrations and noise control algorithms under Matlab/Simulink environment, automatic generation of C Source code and implementing C source code in conformity with DO-178B standard requirements for active suspension for Airbus and Airbus helicopters

Issues: Functional studies, design and development related to on-board mechatronics systems for active noise and vibration control, active suspension for Airbus and Airbus helicopters

11/1998-08/1999 LOGISCOM SA

Le Chesnay

Critical Software Validation Engineer posted to Autoliv Electronic SAS – On-Board Systems test Engineering

Scope: Functional Software Testing of AIRBAG control unit established by functional software specifications (SIL-4)

Issues: Functional validation of-board software on AIRBAG electronic control units for RENAULT and PSA - (equipment SIL 4)

EDUCATION

10/2008-2011

Master's Degree in Management: Project Management and Business Engineering
Institut International du Management – CNAM – Paris

09/1994-07/1997

Master's Degree in Engineering: Control Systems Engineering and Industrial Computing
Ecole Nationale Supérieure de Physique de Strasbourg – ENSPS (Télécom Physique Strasbourg)

09/1996-07/1997

Postgraduate Research Degree in Science - Photonic and Image: vision control/command
Université Louis Pasteur de Strasbourg – Strasbourg 1

TRAINING COURSES

2010 Principles of Negotiation for Mutual Gains – Centre Européen de la Négociation – 4 days

2007 MICROSOFT PROJECT 2003 fundamentals – CEGOS – 3 days

2006 RTCA DO-178B / EUROCAE ED 12B software considerations in airborne systems and equipment certification – BUREAU VERITAS – 2 days

RTCA DO-254 / EUROCAE ED 80 Design assurance guidance for airborne electronic hardware – BUREAU VERITAS – 2 days

2004 Training in Projects management – Collège Polytechnique – 3 days

PATENTS – PUBLICATIONS

United States Patent Application 2011/0112775 A1 : Method and device for monitoring an aircraft structure Ref. EADS200414 13768 FR, 18 avril 2005

Didier Bramban, Jean-Pierre Dupuis, Benoît Petitjean, *Impact Detection and Localisation Airborne System Development for Avionics Applications*, The 5th International Workshop Structural Health Monitoring Stanford University 2005, 1235.