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CURRICULUM VITAE – EU PHARE Format

AREAS OF EXPERTISE (Brief summary description)

Project Management, research programmes project management, FP7, Clean Sky and ESA proposal experience, National Research and Development programmes proposal experience, structural funds proposal experience. Engineering background with solid experience of program development. Hardware experience Extensive software experience.

Contact details
e-mail:
banu.cesar@incas.ro
telephone: +40722 620397

1. Surname:	BANU
2. First Names (s)	Cesar-Ciprian
3. Date of Birth:	16th of October 1980
4. Nationality:	Romanian
5. Civil Status:	Married

6. Education:

Institutions:	"Politehnica" University of Bucharest
Date: from (month/year) to (month/year)	1999-2004
Degree(s) or Diploma(s):	Aerospace Structures Engineer

7. Language skills: (Mark 1 to 5 for Competence; where 5 is the highest)

Language	Reading	Speaking	Writing
English	5	5	5
French	4	4	3

8. Membership of professional bodies:

Name of Professional Body	Type of Membership

9. **Other skills:** (e.g. computer literacy, etc.)

Skill, applications used, area of expertise	Comments
Management	Management of development team. Project management of research proposal. Preparation and submission of research programs proposals – national and FP7, Clean Sky and ESA project proposals.
Technical	Computing applications – Windows OS, MS Office package 3D design CATIA, AUTOCAD. FEM-FEA software Ansys and Nastran
Documentation & procedures	EU regulation conformance. Clean Sky.

10. **Present position:**

Title	Role
Project manager of aerospace research programme Aerospace engineer	Management of development team with extended research work and development Program manager. Research activity in aircraft testing program

11. **Years within the company:**

14 Years within INCAS 1 Year within INAV. S.A. 4 Years within STRAERO S.A

12. **Key qualifications: (Relevant to the project)**

Project and staff management
IT skills
Familiarity with EU Commission procedures, EU regulation, and POS DRU procedures

13. **Specific experience (in non-EU member countries):**

Country	Date: from (month/year) to (month/year)	Name and brief description of the project

14. Professional Experience Record:

Date from(M/Y) to (M/Y)	June 2011 Present day
Location	Bucharest
Company	INCAS Bucharest. National Institute for Aerospace Research – Elie Carafoli
Position	Chief engineer; Project manager. Aerospace Engineer – research and Development team.
Projects	- HORIZON Europe EXAELIA project. **Project manager – responsible for INCAS activities;** - HORIZON Europe Clean Aviation – HE-ART project. **Project manager – responsible for INCAS activities;** - H2020 – DOMMINIO project. **Project manager – responsible for INCAS activities;** - CS2 – CFP09 – ELADINE project– **Project manager**. Proposal submitted and awarded under H2020 Clean Sky program rules. **Project manager, Chief engineer and primary point of contact for the ELADINE consortium.** - CS2 – CFP08 – FITCoW project – **Project manager**. Proposal submitted and awarded under H2020 Clean Sky program rules. **Project manager, Chief engineer and primary point of contact for the FITCoW consortium.** - CS2 – CFP07 – PROCEPTO project proposal – **Project manager**. Proposal submitted but not awarded under H2020 Clean Sky program rules. - Purchase of tangible assets „ Modernization of the equipment for dynamic testing and analysis of aeronautical structures" - **Technology integrator for INCAS. Program manager** - Purchase of tangible assets „ Airborne data aquistion equipment for in-flight aerospace systems testing" – **Technology integrator for INCAS. Program manager.** - FP7 AFLONEXT - ***Aerospace Structures Engineer, stress and structural analysis team.*** - ESA FLPP – D4D – Deorbitation Design to Demise Guidelines. **Project manager and WP3 responsible.** - Nucleu/Materiale Compozite pt Structuri Aerospatiale si Tehnologii Asociate – PN-09-17-04-03 - ***Aerospace Structures Engineer, stress and structural analysis team.*** - FP7/Clean Sky – BLADE Project - ***Aerospace Structures Engineer, stress and structural analysis team.*** - FP7/ESPOSA. **WP6.4 - Chief engineer; INCAS program manager.**

Date from(M/Y) to (M/Y)	December 2006 May 2011
Location	Bucharest

Company	S.C. STRAERO S.A.
Position	Chief engineer; Test program manager; Project manager. Aerospace Engineer – research and Development team.
Projects	- FP7-AAT-2007-RTD-1 COSAECOM R.N. - FP7-203816. **Primary responsible and primary point of contact.** - CEEX/CAFICMEIS - ***Aerospace Structures Engineer*** - CEEX/SIAPOM - ***Aerospace Structures Engineer*** - PNCDI-2007/NORA – **Project manager and chief engineer.** - Studiu privind Repararea si Monitorizarea Sanatatii Structurilor de Aviatie din aliaj de aluminiu folosind materiale compozite laminate si micro-sisteme electro-mecanice – SRMSSA. **Chief engineer; Test program manager**

Date from(M/Y) to (M/Y)	April 2006 December 2006
Location	Bucharest
Company	S.C. INAV S.A.
Position	Aerospace Structures Engineer – research and development team. DFM (design for manufacturing) position.
Projects	- Aerospatial/AEROTAXI Mechanical Static Test specimen – (national research and development program) - ***Aerospace Structures Engineer*** in charge with airframe design for the test specimen. Detail design of fuselage/wing junction parts, hinges and lugs DFM.

Date from(M/Y) to (M/Y)	September 2004 March 2006
Location	Bucharest
Company	INCAS Bucharest. National Institute for Aerospace Research – Elie Carafoli
Position	Aerospace Structures Engineer – research and development team
Projects	- Aerospatial/AEROTAXI Mechanical Static Test specimen – (national research and development program) - ***Aerospace Structures Engineer*** in charge with airframe design for the test specimen. - Aerospatial/**AEROTAXI** – (national research and development program) - ***Aerospace Structures Engineer*** in charge with reference drawings issuing and airframe design.

15. Others:

e.g. Publications, reports, presentations speeches

When	Description
2007	**"MEMS Use in Health Monitoring of Composite Aeronautical Repaired Structures"** – 2007, Buletinul Institutului Politehnic din Iasi, tomul LIII Fasc.4
2007	**"Studies on the repairing of aeronautical structures using fiber reinforced polymer patches. Micromecanical FE modelling and analysis of bidirectional fiber reinforced materials."** –I SISOM 2007, IMS.
2008	**"Estimarea Constantelor Elastice ale Compozitelor armate cu tesaturi de fibre cu metoda Elementelor finite"** – 2008 , Conferinta AEROSPATIAL, Institutului National de Cercetari Aerospatiale "Elie Carafoli", Bucuresti, ISBN 978-973-0-05704-1
2008	**"Comportamentul la Oboseala al Panourilor de Aluminiu Fisurate, Reparate cu Petice Compozite"** - 2008 , Conferinta AEROSPATIAL, Institutului National de Cercetari Aerospatiale "Elie Carafoli", Bucuresti, ISBN 978-973-0-05704-1
2019	**"Thermal spring-in prediction capability for large composite structure. Approaches and methods of work"** Mircea BOCIOAGA, Cesar BANU – 2019, NMAS conference, Institutului National de Cercetari Aerospatiale "Elie Carafoli", Bucuresti
2021	*A Torre-Poza1*, A M R Pinto, T Grandal, N González-Castro, L Carral1, R Travieso-Puente, E Rodríguez-Senín, C Banu, A Paval, M Bocioaga and L Firtat.* ***ELADINE: sensor monitoring and numerical model approach for composite material wing box shape distortions prediction****11th EASN Conference 2021*
2024	*Banu, C.; Bocioaga, M.* ***Shape distortion prediction of high temperature curing laminates through a transient multi-physics numerical model****. In Proceedings of the AIAA SCITECH 2024 Forum, Orlando, FL, USA, 8–12 January 2024.*
2024	*Banu, C.; Bugaru, M.* ***Development of a Numerical Tool for Laminate Composite Distortion Computation Through a Dual-Approach Strategy****. Appl. Sci. 2024, 14(22), 10656; https://doi.org/10.3390/app142210656* ***[Impact factor 2.5, Rank Quartile Q1]***
2024	*M. Pop, M. Tudose, D. Visan, M. Bocioaga, C. Banu, T. Salaoru.* ***A Machine Learning-Driven Wireless System for Structural Health Monitoring,*** *arXiv:2410.20678. September 2024 DOI: 10.48550/arXiv.2410.20678*

Cesar BANU