



**Europass
Curriculum Vitae**



Personal information

First name / Surname	Ion FUIOREA
Address(es)	
Telephone(s)	+40214340169
Fax(es)	+40214340170
E-mail	ifuiorea@straero.ro
Nationality	Romanian
Date of birth	
Gender	Male

Work experience

Dates	August 2012 – Present
Occupation or position held	Technical Manager
Main activities and responsibilities	Research, Product design and manufacturing management
Name and address of employer	SC SMART MECHANICS SRL – BUCHAREST sector 3 str. Stelea Spataru nr. 10 ap. 6
Type of business or sector	Research, manufacturing
Dates	January 2018 - present
Occupation or position held	Associated Professor

Main activities and responsibilities	Teaching the disciplines of: Aircraft Structures Calculus & Construction; Aero-elasticity; Finite Elements Method
Name and address of employer	Polytechnic University of Bucharest
Type of business or sector	Education & Research
Dates	February 2015 – October 2017
Occupation or position held	Head of department of defence systems
Main activities and responsibilities	Research management
Name and address of employer	National Research Institute COMOTI – B-dul Iuliu Maniu 220, Bucharest sector 6
Type of business or sector	Research and Development
Dates	November 2014 – February 2015
Occupation or position held	Technical & Manufacturing Manager
Main activities and responsibilities	Product design and manufacturing management
Name and address of employer	SC AEROTEH SA – Bdul Iuliu Maniu 220A Bucharest sector 6
Type of business or sector	Helicopter hydraulic system manufacturing
Dates	October 2007 – November 2014
Occupation or position held	General Manger
Main activities and responsibilities	Management, Research
Name and address of employer	S.C. STRAERO S.A. (Institute for Theoretical and Experimental Analysis of Aeronautical Structures)
Type of business or sector	Research and Development
Dates	August 2007 – October 2007
Occupation or position held	Scientifically Manger
Main activities and responsibilities	Research management, Research
Name and address of employer	S.C. STRAERO S.A. (Institute for Theoretical and Experimental Analysis of Aeronautical Structures)
Type of business or sector	Research and Development
Dates	October 2004 – present
Occupation or position held	Associated Professor
Main activities and responsibilities	Teaching the disciplines of: Aircraft Structures Calculus & Construction; Aero-elasticity; Finite Elements Method
Name and address of employer	Polytechnic University of Bucharest
Type of business or sector	Education
Dates	2004 – 2007
Occupation or position held	Director in the State Central Office for Special Issues
Main activities and responsibilities	Planning the organization of National Economy for Defence
Name and address of employer	Romanian Govern

Type of business or sector	Administration
Dates	1996 – 2004
Occupation or position held	Professor
Main activities and responsibilities	<p>Didactical activities with the students from the faculty as well as from the post-graduate courses, MBA studies (courses, seminars, laboratory activities,) for: Aircraft Structures Calculus & Construction, FEM, Research Aero-elastic Structures, Aircraft Composite Structures.</p> <p>Since 1999 PhD adviser, Aerospace Engineering field.</p> <p>Starting 1996, Head of Aircraft Department, Dean of the Academy's Faculty of Aviation and Armours, Pro-rector for Teaching and Scientific Research and finally Rector.</p>
Name and address of employer	Military Technical Academy
Type of business or sector	Education
Dates	1990 – 1996
Occupation or position held	Associate Professor
Main activities and responsibilities	<p>Didactical activities with the students from the faculty as well as from the post-graduate courses, MBA studies (courses, seminars, laboratory activities,) for: FEM, Aircraft Composite Structures.</p> <p>Participating as chief of collective or as a member in some scientifically research collectives in many research contracts in the interest of the National Ministry of Defence</p>
Name and address of employer	Military Technical Academy
Type of business or sector	Education
Dates	1981 – 1990
Occupation or position held	Lecturer
Main activities and responsibilities	<p>Didactical activities with the students (courses, laboratory seminars, coordinating course projects and graduation papers, productive practical activities) for: The Mechanics of the Rigid and Distorting Solid, Mechanical Vibrations, Technology, Aircraft Composite Structures.</p> <p>Participating as chief of collective or as a member of the research collective, to different research contracts in the interest of the National Ministry of Defence or for economical agents from the defence industry.</p>
Name and address of employer	Military Technical Academy
Type of business or sector	
Dates	1980 – 1981
Occupation or position held	Chief Engineer
Main activities and responsibilities	<p>Participating directly in the Helicopters Repair Base setting up, being responsible for acquiring and preparing the technological stock of the base, for the fabrication preparation of the Puma helicopter repairs line.</p>
Name and address of employer	Helicopters Repair Base – Otopeni
Type of business or sector	MoD

Dates	1977 – 1980
Occupation or position held	Technical Deputy for the Commander of the Special Squadron
Main activities and responsibilities	Aircraft maintenance
Name and address of employer	Otopeni Transport Wing
Type of business or sector	MoD

Education and training

Dates	1996
Name and type of organisation providing education and training	NATO College of Defence, Rome

Dates	1990 – 1994
Title of qualification awarded	PhD. In Aerospatale Engineering
Name and type of organisation providing education and training	Military Technical Academy
Level in national or international classification	PhD.

Dates	1979 – 1984
Title of qualification awarded	Licence in Mathematics
Name and type of organisation providing education and training	The Faculty of Mathematics, University of Bucharest
Level in international classification	BA

Dates	1972 – 1977
Title of qualification awarded	Engineer
Name and type of organisation providing education and training	Military Academy – Military Airframe & Engines
Level in international classification	BA

Personal skills and competences

Mother tongue(s)	Romanian
------------------	-----------------

Other language(s)

Self-assessment

European level ()*

French

English

Italian

Understanding

Listening Reading

B2

C2

A2

Speaking

Spoken interaction Spoken production

B2

C2

A2

Writing

B2

C2

A2

Technical skills and competences	<ul style="list-style-type: none"> ▪ 1st Grade Scientific Researcher, attested by the Ministry of Education and Research ▪ Expert CNCISIS Evaluator, in the fields of New Materials and Aviation Expert CORDIS Evaluator for R&D projects in the fields of New Materials and Aviation FP5, FP6, FP7 ▪
Computer skills and competences	<p>CAD, FEM, CFD, MatLab</p> <p>Project Manager for the recent research projects:</p> <ul style="list-style-type: none"> • Contract: Light Panel Performance Increasing Considering a New Optimized Design for Advanced Aircraft Structures (HIPEAS) Consortium (Politehnica University of Bucharest, STRAERO), Contractor: Romanian Ministry of Research, 2013 – 2016 • Contract: Impact Simulation & Calculus for Antiballistic Armouring System for a MEDEVAC Helicopter, Contractor: Romanian MoD, 2013 – 2016. • Research, simulation, design & development, manufacturing and testing of different Banki hydropower stations (100, 170, 200 kw) equipped with an integrated power system, 2012 - 2015. • Design, structural static and dynamic calculus, functional simulation and manufacturing of high precision mechanical elements for a piezoelectric micromotor, under the technical conception of ICPE-CA, tested in 2014. • Design, structural static and dynamic calculus, functional simulation and manufacturing of high precision mechanical elements for a magnetostrictiveliniar micromotor, under the technical conception of ICPE-CA, tested in 2015. <ul style="list-style-type: none"> ▪ Project IDEI 137/2008 081: Mathematical models for complex ultimate states in composite materials 2008 ▪ Project PN II 82-081: Aero-elastic vibration damping by using advanced activ control techniques 2008
Additional information	<ul style="list-style-type: none"> ▪ Project CEEEX 65: Integrated system for multidisciplinary analysis and optimal projecting 2006 ▪ FP 7: CLEAN SKY Joint technology initiative – Smart Fixed Wing FP5: TAURUS – Aero-elasticity simulation environment 2002-2005

Annexes Papers and articles

- Fuiorea, Composite Materials. Designing the Mechanical Answer, Ed. Pan Publishing House, București, 1995;
- Fuiorea, A homogenous anisotropical model for a complex regular structure, International Conference COMPOSITES IN CONSTRUCTION, Porto, 10-12 Oct. 2001;
- Fuiorea, An Method for Tsai-Wu Failure Critrerion validation, The 20th SAMPE Europe Jubilee International Conference, Paris, 1999;
- I FUIOREA – O metoda de rezolvare in deplasari a problemei placilor plane compozite – INCAS Bulletin Vol. 3, Issue 2, 2011-10-31
- I FUIOREA – W TIU - Decoupling Effects - A Novel Method for Composites Characterization - Proceedings of the Romanian Academy, Series A, of the Romanian Academy, Volume 12, Number 1/2011
- I FUIOREA, L FLORE, R MARIN, D GABOR - A Fem Composite Blade Model Calibration – Efficiency and Innovation through ANSYS & FLOWMASTER Numeric Simulation Sinaia, 6-7 October 2011
- D GABOR, I FUIOREA - Engineering Constants Anticipation for Composite Materials - Efficiency and Innovation through ANSYS & FLOWMASTER Numeric Simulation Sinaia, 6-7 October 2011
- Prof. Ion Fuiorea, Cs I Mihail Stoicescu, Ing. Dumitrita Gabor, Ing. Ionel Popescu - The Influence of The Specimen Clamping Framework Upon the Stress State - The 17th International Scientific Conference Knowledge-Based Organisation 2011
- Ion FUIOREA, Lică FLORE, Dumitrita GABOR - A POINT OF VIEW UPON RAYLEIGH DAMPING HYPOTHESIS, AEROSPATIAL 2012, Bucharest;
- Ion FUIOREA, Mihai MIHĂILĂ-ANDRES, Dumitrita GABOR - AN AEROELASTIC PROBLEM SOLVED WITH THE ANSYS MFX CODE, Eficiență și Inovație prin Simulare Numerică, ANSYS & FLOWMASTER, Sinaia, 2012.

Monographies & tutorials

- I Fuiorea, D Ionescu, S Stefan – Mechanics . Dynamics, Military Technical Academy, 1988 (244 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Statics – Tutorial, Military Technical Academy, 1990 (268 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Cinematics – Tutorial, Military Technical Academy, 1992 (292 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Dynamics Vol I – Tutorial, Military Technical Academy, 1993 (299 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Dynamics Vol II – Tutorial, Military Technical Academy, 1994 (347 pag)
- I Fuiorea, D Ionescu, S Stefan – Analytical Mechanics – Tutorial, Military Technical Academy, 1995 (363 pag)
- I Fuiorea – Composite materials. Mechanical Answer Design – Pan Publishing House 1995 (210 pag)
- D Ionescu, P Lixandru, I Fuiorea sa – Mechanics – Complements - Military Technical Academy, 1997 (266 pag)
- I Fuiorea – Finite Element Method for Aeroelastic Structures - Military Technical Academy, 1998 (266 pag)
- I Manole, V Stanciu, I Fuiorea - romanian engineering aeronautic education history – media uno, 2001 (432 pag)

Other information

- Trustee member of CEAS

- **Peer Reviewer:**
 - **CEAS Aeronautical Journal**
 - **Royal Aeronautical Journal**

16 of December 2019