



**Europass  
Curriculum Vitae**



**Personal information**

First name / Surname **Ion FUIOREA**

Address(es)

Telephone(s)

Fax(es)

E-mail

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 &amp; 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<br><i>European level (*)</i> | Understanding |         | Speaking           |                   | Writing |
|--|---------------|---------|--------------------|-------------------|---------|
|  | Listening     | Reading | Spoken interaction | Spoken production |         |
| French                                       | B2            | B2      | B2                 | B2                | B2      |
| English                                      | C2            | C2      | C2                 | C2                | C2      |
| Italian                                      | A2            | A2      | A2                 | A2                | A2      |

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

## 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 20<sup>th</sup> 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