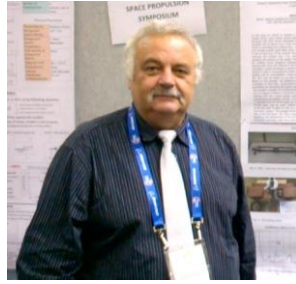


Curriculum Vitae



Personal information

First name(s) / Surname **Teodor - Viorel CHELARU**

E-mail teodor.chelaru@upb.ro

Nationality Romanian

Date of birth 24 Mars 1956

Work experience

Dates	At present
Occupation or position held	Professor in Faculty of Aerospace Engineering, Manager Research Center for Aeronautics and Space – CCAS
Main activities and responsibilities	Didactic activities, Research activities
Name and address of employer	University POLITENICA of Bucharest, Splaiul Independenței 313, PC 060032, sector 6, Bucharest, ROMANIA
Type of business or sector	High Education
Dates	December 2001 - October 2016
Occupation or position held	Senior Scientist
Main activities and responsibilities	Research Activity, Management Industrial programmes
Name and address of employer	CN ROMARM SA , B-dul Timisoara nr. 5B, PC 77309, sector 6, Bucharest, ROMANIA
Type of business or sector	Defence Industry
Dates	December 2000 - December 2001
Occupation or position held	Strategy Advisor
Main activities and responsibilities	Coordinating Activities
Name and address of employer	SC Arsenal SA , B-dul Timisoara nr. 5B, PC 77309, sector 6, Bucharest, ROMANIA
Type of business or sector	Defence Industry
Dates	July 1997 - December 2000
Occupation or position held	Head of research laboratory
Main activities and responsibilities	Research Activity
Name and address of employer	Electromecanica Plant – Research Center , Sos Ploiesti-Tirgoviste, km 8, Ploiesti, jud. Prahova ROMANIA / MOD –UM 01819
Type of business or sector	Defence Industry
Dates	January 1984 - Jun 1997
Occupation or position held	Head of research laboratory

Main activities and responsibilities	Research Activity
Name and address of employer	Institutul de Cercetări și Proiectări Electromecanice – Research Center , Sos Ploiesti-Tirgoviste, km 8, Ploiesti, jud. Prahova ROMANIA / MOD UM 02481- Ploiești
Type of business or sector	Defence Industry
Dates	October 1981 - December 1983
Occupation or position held	Trainee Engineer
Main activities and responsibilities	Design Activity
Name and address of employer	MOD UM 01918 Ploiești, Sos Ploiesti-Tirgoviste, km 8, Ploiesti, jud. Prahova ROMANIA
Type of business or sector	Defence Industry
Education and training	
Dates	November 2014
Title of qualification awarded	Habilitation Thesis
Dates	December 1989 – May 1994
Title of qualification awarded	Doctoral Degree
Principal subjects/occupational skills covered	Thesis "The studies of the dynamic flight for the guided missiles", scientific advisor: Professor M.M. Niță
Name and type of organisation providing education and training	Polytechnic Institute of Bucharest, Aeronautical Faculty
Level in national or international classification	Doctoral Studies
Dates	September 1976- Jun 1981
Title of qualification awarded	Bachelor of Science
Principal subjects/occupational skills covered	Mathematics, Physics, Technology, Design, Aerodynamics, Dynamics Flight, Rocket Motor , diploma work about "Missile with airplane configuration – cruise missile"
Name and type of organisation providing education and training	Polytechnic Institute of Bucharest, Aeronautical Faculty
Level in national or international classification	Higher Education

Personal skills and competences

Mother tongue Romanian
 Other language(s) English, French, Russian

Self-assessment
European level ()*

English
French
Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Advanced	B1	Advanced	B2	Advanced	B1	Advanced	B1	Advanced
B1	Advanced	B1	Advanced	B1	Advanced	A2	Beginner	A2	Beginner
A1	Beginner	A1	Beginner	A1	Beginner	A1	Beginner	A1	Beginner

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences
Organisational skills and competences

Good team working

Research Activity management: from 2008 till present UPB-CCAS manager; from 2002 till 2016 Scientific Secretary of ROMARM Council; During the activity in ICPEM and ELECTROMECHANICA Ploiesti head of research laboratory.

Didactical Activity management: from 2012 till 2016 Vice Dean charge with research and organizational activities. From 2008 to 2012 Scientific Secretary of Faculty Council.

Experience (including managerial experience) in management of national / international programme / projects:

Programme / Project	Function	Period:
PN2 , STAR. <i>Suborbital Launch System Developing - Flight Experiments SLD (Pn1)</i>	Project Manager	2017-2019
PN2 , Dom 8. <i>Project Suborbital Testing System, Developing Ground Infrastructure, Flight Tests-STS (Pn2)</i>	Project Manager	2014-2017
ESA project <i>Study – concept, to achieve a Small Orbital Launcher through zonal cooperation – SOL (Pi1)</i>	Responsible project UPB-CCAS	2014-2015
STAR Programme, <i>Project Suborbital Launcher for Test – SLT (Pn3)</i>	Project Manager	2012-2014
FP7, Space <i>Project Operational Research Project on Hybrid Engine in Europe – ORPHEE (Pi2)</i>	Responsible project from Romania	2009 -2011
PN2 , Dom 8. <i>Project Rocket for satellite launching of on low orbit – subsystems development, unconventional fuels - VLS-DS/CN (Pn5)</i>	Project Manager	2008-2011
PN2 , Dom 3. <i>Project Mobile system for fight against fires developed in open space SMCI-SD (Pn6)</i>	Project Manager	2008-2011
Bilateral cooperation CN ROMARM SA / ROXEL – France <i>Project GRAD BM (F2)</i>	Responsible project for ballistic problems	2005 -
Bilateral cooperation CN ROMARM SA / Elbit –Israel <i>Project – STAR 80 L (F1)</i>	Responsible project from CNR	2005 - 2013
Programme SECURITY project <i>Laser guided reactive projectile in support of anti-terror operations in dense urban areas (Pn7)</i>	Project Manager	Dec.2005 –Nov. 2006
Programme RELANSIN, project <i>Fire control system for the 273 cal. rocket with a range of min. 80 km. (Pn8)</i>	Project Manager	Sept. 2004 – Nov. 2006
MOD Programme <i>MAGIC/LANCER (F3,F4)</i>	Responsible project for Dynamic Launch Zone	2003- 2004
MOD, Programme <i>LAROM/ACCS (F5)</i>	Responsible project for ballistic problems	2002-2004
Programme RELANSIN, project <i>General mechanical assembly for the anti-hailstone rocket (Pn9)</i>	Project Manager	Jan. 2001 – Jun 2003

Other research projects and contracts, as project manager / responsible and research conducted as job tasks are shown in Annex

Technical and Scientific Competences	<p>In Field of Spacecraft: 1 international project (Pi1), 4 national projects (Pn1, Pn2, Pn3, Pn5), 2 courses (Ca1, Ca3), 37 published papers (Ris1, Ris2, Ris3, Ris4, Ris5, Ris6, Ris7, Ris8, Ris9, Ris10, Rio1, Rio2, Rio3, Vis1, Vis3, Vis5, Vis7, Vis10, Vis12, Vis14, Vis15, Vis17, Vis18, Vis20, Vis22, Vis27, Vis31, Vi1, Vi2, Vi3, Vi5, Vi7, Vi8, Vi9, Vi10, Vi12, Vi15), 3 patent proposal (B1, B5, B6).</p> <p>In Field of Guided Missiles: participation in 2 international projects (F1, F3-F4), 7 national projects (Pn7, Pn12, F6-F10), 1 book (Cb3), 3 courses (Ca2, Ca4, Ca6), 1 project guide (I2), 13 published papers (Ris17, Ris20, Ris21, Rio5, Rno4, Rno5, Rno7, Vis28, Vi4, Vi17, Vi19, Vi20, Vi22)</p> <p>In Field of Unmanned Aerial Vehicles: 5 national projects (Pn13, Pn14, Pn15, Pn19, Pn22), 2 books (Cb4, Cb5); 1 course (Ca5), 12 published papers (Ris13, Ris15, Ris16, Vis8, Vis23, Vis24, Vis25, Vis30, Vis32, Vis33, Vi11, Vi14)</p> <p>In Field of Unguided Rockets: participation in 2 international projects (F2, F5), 6 national projects (Pn6, Pn8, Pn9, Pn16, Pn17, Pn18), 2 books (Cb1, Cb2), 7 published papers (Ris18, Ris19, Rno2, Rno3, Vi13, Vi16, Vi18), 1 Utility model (A1)</p> <p>In Field of Experimental Aerodynamic: coordination experimental programmes for 12 missiles configurations (Pn9, F8,...); 2 published papers (Ris12, Rno1)</p> <p>In Field on Rockets Motors and Reaction Control Systems: 1 international project (Pi2); 4 national projects (Pn1-RCS, Pn2 -RCS, Pn3-Rcs, PN5 - MR), 17 published papers (Ris11, Ris14, Rio4, Rno6, Vis2, Vis4, Vis6, Vis9, Vis11, Vis13, Vis16, Vis19, Vis21, Vis26, Vis29, Vis34, Vi6), 3 patent proposal (B2, B3, B4).</p>
Computer skills and competences	Structured languages FORTRAN, C, Programming environments: MATLAB, MATCAD, Office components, Microsoft Project (Project Manager); Knowledge database: RDB-ORACLE, DATATRIVE, Knowledge of basic software for obsolete computer systems: CORAL – INDEPENDENT; supermini VACS 11/730; server ALPHA 1000
Didactical competences	Titular of the courses “Launchers and Launch Systems”, “Dynamic Flight”, “Aircraft Guidance”, “Optimal Synthesis of Control Laws”, “Spacecraft Dynamics”, “Launchers and launch systems” in the Faculty of Aerospace Engineering from University POLITEHNICA of Bucharest.
Driving Licence	Type B
Additional information	<p>Affiliations:</p> <ul style="list-style-type: none"> - Romanian representative in ESA - PB-LAU Future Launchers Preparatory Programme Group. - Industrial representative of Romania in NMSG (NATO Modeling and Simulating Group) - Industrial representative of Romania in WEAG (Western European Armaments Group) CEPA 15 (Common European Priority Areas) – Strategy Missiles, UAV's and Robotics; - Space University Administrative Committee (SUAC) from IAF (International Astronautical Federation) - Astronautically and Aeronautical Committee from Technical Division of Romanian Academy; - National Council for Attestation of University Titles, Diplomas and Certificates – CNADTCU; - University Association for Science and Technology of Romania - UASTRO
Annexes	Main Research Contributions (books, published papers, conferences proceedings, projects) in work list

Note - References in brackets correspond with the work list.

Date: 11.10.2018

Signature

