

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 1991 - 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	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										
(*) Common European Framework of Reference for Languages										
Social skills and competences	Good team working									

Organisational skills and competences

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

Didactical Activity management: from 2012 till now 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 , Dom 8. Project <i>Suborbital Testing System, Developing Ground Infrastructure, Flight Tests-ST5 (Pn1)</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, Project Suborbital Launcher for Test – SLT (Pn2)	Project Manager	2012-2014
FP7, Space Project Operational Research Project on Hybrid Engine in Europe – ORPHEE (Pi2)	Responsible project from Romania	2009 -2011
PN2 , Dom 8. Project <i>Rocket for satellite launching of on low orbit – subsystems development, unconventional fuels - VLS-DS/CN (Pn4)</i>	Project Manager	2008-2011
PN2 , Dom 3. Project <i>Mobile system for fight against fires developed in open space SMCI-SD (Pn5)</i>	Project Manager	2008-2011
Bilateral cooperation CN ROMARM SA / ROXEL – France Project GRAD BM (F2)	Responsible project for ballistic problems	2005 -
Bilateral cooperation CN ROMARM SA / Elbit –Israel Project – STAR 80 L (F1)	Responsible project from CNR	2005 - 2013
Programme SECURITY project <i>Laser guided reactive projectile in support of anti-terror operations in dense urban areas (Pn6)</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. (Pn7)</i>	Project Manager	Sept. 2004 – Nov. 2006
MOD Programme MAGIC/LANCER (F3,F4)	Responsible project for Dynamic Launch Zone	2003- 2004
MOD, Programme LAROM/ACCS (F5)	Responsible project for ballistic problems	2002-2004
Programme RELANSIN, project <i>General mechanical assembly for the anti-hailstone rocket (Pn8)</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

In Field of Spacecraft: 3 national projects (Pn1, Pn2, Pn4), 1 course (Ca3), 21 published papers (Rio1, Rio2, Vis2, Vis4, Vis6, Vis8, Vis9, Vis11, Vis12, Vis14, Vis16, Vis21, Vis25, Vi1, Vi3, Vi4, Vi7, Vi9, Vi10, Vi11, Vi12), 3 patent proposal (B1, B2, B3).

In Field of Guided Missiles: participation in 2 international projects (F1, F3-F4), 11 national projects (F6-F21), 1 book (Cb3), 3 courses (Ca1, Ca4, Ca6), 1 project guide (I2), 13 published papers (Ris13, Ris15, Ris16, Ris17, Rio2, Rno3, Rno4, Rno5, Rno7, Vi13, Vi21, Vi22, Vi24)

In Field of Unmanned Aerial Vehicles: 4 national projects (Pn12, Pn13, Pn14, Pn21), 2 books (Cb4, Cb5); 12 published papers (Ris2, Ris9, Ris11, Ris12, Vis1, Vis17, Vis18, Vis19, Vis22, Vis24, Vis26, Vis27)

In Field of Unguided Rockets: participation in 2 international projects (F2,F5) , 2 national projects (Pn7, Pn8), 2 books (Cb1, Cb2), 5 published papers (Ris14, Vi15, Vi18, Vi20, Vi23), 1 Utility model (A1)

In Field of Experimental Aerodynamic: coordination experimental programmes for 12 missiles configurations (Pn6, Pn8, F8, F13-F21); 2 published papers (Ris8, Rno1)

In Field on Rockets Motors and Reaction Control Systems:

1 international project (Pi2); 2 national projects (Pn1, PN4 - MR, Pn2 - RCS), 13 published papers (Ris7, Rno6, Vis3, Vis7, Vis10, Vis13, Vis15, Vis20, Vis23, Vis28, Vi2, Vi5, Vi8)

Computer skills and competences

Knowledge of basic software for computer systems: CORAL – INDEPENDENT; supermini VACS 11/730; server ALPHA 1000, P.C., Knowledge database: RDB-ORACLE

Didactical competences	Titular of the courses "Launchers and Launch Systems", "Dynamic Flight", "Aircraft Guidance", "Optimal Synthesis of Control Laws", "Spacecraft Dynamics" in the Faculty of Aerospace Engineering from University POLITEHNICA of Bucharest.
Driving Licence	Type B
Additional information	Affiliations: <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; - Astronautically and Aeronautical Committee from Technical Division of Romanian Academy;
Annexes	Main Research Contributions (books, published papers, conferences proceedings, projects) in work list

Note - References in brackets correspond with the work list.

Date: 27.03.2017

Signature

