CURRICULUM VITAE

Personal information



First name / Surname	**Vasile NUŢU**
Address	Bucharest
Telephones	+40 745 251 044
E-mail	vnutu@yahoo.com, vasilenutu@gmail.com,
Nationality	romanian
Date of birth	23/12/1964
Gender	Male

Work experience

Dates	**17/02/2020 - Present**
Name and address of employer	Military Technical Academy, George Coşbuc 81-83 Street, Bucharest (Romania)
Occupation or position held	Lecturer
Main activities and responsibilities	Didactical activities.
Dates	**01/07/2016 - 17/02/2020**
Name and address of employer	Military Technical Academy, George Coşbuc 81-83 Street, Bucharest (Romania)
Occupation or position held	Professor (part time)
Main activities and responsibilities	Didactical activities.
Dates	**01/07/2016 - 31/05/2017**
Occupation or position held	Research and development engineer
Main activities and responsibilities	Scientific research activities
Name and address of employer	S.C. Aerofina S.A., Fabrica de Glucoză 12 Street, Bucharest (Romania)
Type of business or sector	R&D activities
Dates	**21/09/1089 - 01/07/2016**
Name and address of employer	Military Technical Academy, George Coşbuc 81-83 Street, Bucharest (Romania)
Occupation or position held	
01/10/2014 - 01/07/2016	Head of Aircraft Integrated Systems and Mechanics Department and professor
01/10/2011 - 01/10/2014	professor
01/10/2000 - 30/09/2011	associate professor
01/08/1996 - 01/10/2000	lecturer
01/09/1992 - 01/08/1996	assistant
21/09/1989–01/09/1992	laboratory chef
Main activities and responsibilities	Didactical and scientific research activities in the field of: - Automatic control theory, - Integrated avionics and weapons systems, - Missiles control and guidance, - Flight control theory Administrative activities.
Type of business or sector	Specialized scientific and technical activities

Education and training

Dates	01/10/1996 - 11/06/1999
Title of qualification awarded	**PhD, domain of Automatics,** thesis title: "*Contribution to the study of the accuracy of the tracking systems in presence of disturbances"*
Principal subjects/occupational skills covered	Automatics, Automatic control engineering, Dynamic of nonlinear systems, Dynamic of guided weapons
Name and type of organisation providing education and training	Military Technical Academy, Romania, Bucharest
Dates	15/09/1990 - 15/06/1996
Title of qualification awarded	**Engineer** diploma, Domain: **Automatics**
Principal subjects/occupational skills covered	The automatics on linear systems; Nonlinear systems; The automatic control theory; Programming in high level languages; The automatic control devices; Architecture of process computers;

Name and type of organisation providing education and training	University Polytechnic Bucharest, Faculty of Computers and Automatics Romania, Bucharest
Dates	15/09/1984 - 23/08/1989
Title of qualification awarded	**Engineer** diploma, Domain: Aircraft weaponry
Principal subjects/occupational skills covered	Aerodynamics and dynamics of missiles; Flight theory; Programming in high level languages; Mechanisms theory and Mechanics; Electrical and pneumatically actuators; Modeling and simulation of mechanical devices.
Name and type of organisation providing education and training	Military Technical Academy, Armament Department Romania, Bucharest

Personal skills and competences

Mother tongue(s) **Romanian**

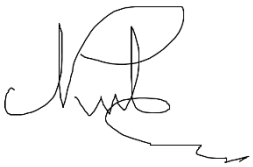
Other language(s)

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2
French	B2	B2	B2	B1	B2

Communication skills	Very good communication skills, gained through my didactic experience
Social skills and competences	Adaptability and work capability in stress conditions, Collegialities and team spirit
Organisational skills and competences	Experience in the management of projects, based on the three national grants driven that project manager Experience in the management of scientific and research activities, based on administrative activities
Technical skills and competences	Abilities in formalizations, modeling and solving of technical complex and nonlinear problems, Abilities in analyzing and solving of practically technically problems. Knowledge and expertise in the next domains: Theory of automatic systems, continuous or discrete: The flight control theory Simulation of technical systems, Integrated avionics and weapons systems, The missiles' command and control, The statistical testing theory, Aviation weapons devices, Programming in high level languages,
Computer skills and competences	Experience of work in Matlab, in modeling and simulation of complex dynamic systems, Experience of work in SolidWorks, in modeling of mechanical devices, Specialized applications in Visual C++, for ballistic calculus, A very good level in use of Microsoft Office components.
Artistic skills and competences	Insignificant**.**
Other skills and competences	High abilities for work and solve problems in interdisciplinary technical fields.
Driving licence	C, B

Additional information Other references can be obtained by mail or phone.

Annexes Annex 1. The list of publications,
Annex 2. The selective list of projects.



Annex 1. The list of publications

Books and university courses

1. ***NUŢU Vasile***, "***Trageri aeriene şi bombardament. Modele matematice şi algoritmi****",* 284 pagini, Editura: Academia Tehnică Militară, 2021, **ISBN 978-973-640-330-0;**
2. ***NUŢU Vasile***, "***Controlul statistic. Sinteza planurilor de control****",* 136 pagini, Editura Univers Ştiinţific, Bucureşti, 2008, **ISBN 978-973-8936-88-1;**
3. ***NUŢU Vasile***, "***Automatica. Elemente de analiza sistemelor liniare****",* 366 pagini, Editura Academiei Tehnice Militare, Bucureşti, 2008, **ISBN 978-973-640-136-7;**
4. ***NUŢU Vasile***, "***Elemente de analiza sistemelor automate liniare****",* 312 pagini, Editura Univers Ştiinţific, Bucureşti, 2007, **ISBN 978-973-8936-63-8;**
5. ***NUŢU Vasile***, Coman Adrian, "***Comanda rachetelor dirijate, Vol. I, Elemente de mecanica zborului rachetelor dirijate****",* 124 pagini, Editura Academiei Tehnice Militare, 2006, **ISBN general (10) 973-640-080-8; (13) 978-973-640-080-3; ISBN Vol. I (10) 973-640-080-6; (13) 978-973-640-081-0;**
6. Coman Adrian, ***NUŢU Vasile***, "***Comanda rachetelor dirijate, Vol. II, Sisteme de acţionare a comenzilor rachetelor dirijate****",* 260 pagini: Editura Academiei Tehnice Militare, 2006, **ISBN general (10) 973-640-080-8; (13) 978-973-640-080-3; ISBN Vol. I (10) 973-640-082-4; (13) 978-973-640-082-7;**
7. ***NUŢU Vasile***, Luca Răduţu, "***Sisteme de acţionare a comenzilor rachetei. Volumul 2****"*, 150 pagini, Editura: Academia Tehnică Militară, 2002, **ISBN-973-8290-41-4**;
8. ***NUŢU Vasile***,"***Trageri aeriene şi bombardament. Probleme fundamentale****",* 200 pagini, Editura: Academia Tehnică Militară, 2000, **ISBN 973-9456-17-0;**
9. Constantin Gheorghe, ***NUŢU Vasile***, Puscaşu Penică, *"**Bazele construcţiei sistemelor de armament de aviaţie**"*, 600 pagini, Editura: Academia Militară, 1994;
10. Constantin Gheorghe, ***NUŢU Vasile***, *"**Bazele fiabilităţii sistemelor de armament**"*, 240 pagini, Editura: Academia Tehnică Militară, 1996;

PhD thesis:

"*Contribuţii la studiul performanţelor sistemelor de urmărire supuse perturbaţiilor*", Academia Tehnică Militară, 11 iunie 1999, conducător ştiinţific prof. univ. dr. ing. Romulus Petru OTLĂCAN.

Selective list of scientific articles

1. *Published in specialty journals, recognised by CNCSIS:*
   1.1. ***Vasile NUŢU,*** Cristian-Emil MOLDOVEANU, ***"****Study on Percussive Operation of a Plan Mechanism with Perpendicular Displacements****",*** **MTA REVIEW,** ISSN 1843-3391**,** Vol. XXIV, No. 4/**2014**, pag 117-190;
   1.2. ***Vasile NUŢU, "****A Movement Geometry Study for Two-Wheeled Mobiles on a Specified Surface****",*** **MTA REVIEW,** ISSN 1843-3391**,** Vol. XXIII, No. 1/**2013**, pag 5-22;
   1.3. ***Vasile NUŢU,*** Vasile JIPA, Ioan POPA, "*The Evaluation of Absolute Positioning Accuracy of Mobile Objects Placed on the Mobile Platforms*", The Romanian Review Precision Mechanics, Optics & Mechatronics, **2011**, No. 39/2011**,** ISSN 1584-5982**,** pag 67-71;
   1.4. **Vasile NUŢU**, "*The Evaluation of Absolute Positioning Accuracy of Mobile Objects Placed on the Mobile Platforms*", **MTA REVIEW,** ISSN 1843-3391**,** Vol. XX, No. 2/**2010**, pag 105-116;
   1.5. **Vasile NUŢU**, Cristian-Emil MOLDOVEANU, Pamfil ŞOMOIAG, "*A method and an algorithm for obtaining the Stable Oscillatory Regimes Parameters of the Nonlinear Systems, with two time constants and Relay with Delay and Hysteresis*", WSEAS TRANSACTIONS on SYSTEMS and CONTROL, ISSN: 1991-8763, Issue 8, Volume 4, August **2009**, pag. 413-422, ***indexat BDI-COMPENDEX, SCOPUS***;
   1.6. **Vasile NUŢU**, "*The oscillatory regime of nonlinear systems with relay and delay time*", **MTA REVIEW,** ISSN 1843-3391**,** Vol. XIX, No. 3/**2009**, pag 333-346.

2. *Others published papers*
   2.1. **Vasile NUŢU, *"****Modeling of The Real Movement in Resistant Environment of a Quadcopter****",*** 1ST International Conference "New Challenges in Aerospace Sciences NCAS 2013", NOVEMBER 7-8, **2013**, BUCHAREST, ROMANIA, Issue I, ISSN(ISSM-L) 2344-4762**,** pag 246-249;
   2.2. **Vasile NUŢU**, Moldoveanu Cristian, Şomoiag Pamfil, ***"****Some aspects of the Oscillatory Regime of Nonlinear Systems with Relay and Delay Time****",*** Proceedings of the 11th WSEAS International Conference on Automatic Control, Modelling and Simulation (ACMOS '09), Istanbul, Turkey, May 30-June 1, **2009** , ISSN: 1790-5117, ISBN: 978-960-474-082-6, page 395-400;

http://www.wseas.us/books/2009/istanbul/ACMOS.pdf; poz 638, http://science. thomsonreuters.com/ m/ excel/ conference_titles_2009-2010.xls,

2.3. **Vasile NUŢU**, Moldoveanu Cristian, Şomoiag Pamfil, *"A method for calculus of oscillatory regime parameters for systems which include a nonlinear parts inside of controlled plant",* Proceedings of the 11th WSEAS International Conference on Automatic Control, Modelling and Simulation (ACMOS '09), Istanbul, Turkey, May 30-June 1, **2009** , ISSN: 1790-5117, ISBN: 978-960-474-082-6, page 401-406; http://www.wseas.us/books/2009/istanbul/ ACMOS.pdf; poz 638, http://science. thomsonreuters.com/ m/ excel/ conference_ titles_ 2009-2010.xls,

2.4. Pamfil Somoiag, **Vasile NUŢU**, Cristian-Emil Moldoveanu, *"Theoretical and Experimental Researches Concerning Launching Devices Stability during Firing",* 7th EUROMECH Solid Mechanics Conference, J. Ambrósio et al. (eds.) Lisbon, Portugal, September 7-11, **2009**.

2.5. ***NUŢU Vasile**, Rotariu Adrian, Cîrmaci Marius-Valeriu, **"The Oscillatory Stable Regime of Nonlinear Systems, with two time constants"**, 6th WSEAS International Conference on CIRCUITS, SYSTEMS, ELECTRONICS, CONTROL & SIGNAL PROCESSING (CSECS '07),* Cairo, Egypt, December 29-31, **2007**, ISSN: 1790-5117, ISBN 978-960-6766-28-2, Part II, Systems Theory, page 125-129; http://www.worldses.org/books/2007/selected-topics-on-circuits.pdf; poz 24366 - http://thomsonreuters. com/content/PDF/scientific/ conference_titles 2004 -2009.xls; poz 23665 http://science.thomsonreuters. com/m/excel/ conference_ titles_2004-2008.xls

2.6. **Vasile NUŢU**, "*The Oscillatory Stable State Of Nonlinear Order Two Systems, With Two Time Constant*", The 32th Internationally Scientific Conference of The Military Technical Academy, Bucureşti, 1-2 noiembrie **2007**,, ISBN 978-973-640-127-5, Section 9, MODELLING & SIMULATION, index 25, pag. 9.171-9.178;

2.7. **Vasile NUŢU**,"*Cinematic Aspects Of Maneuvrable Targets' Tracking Process*", The 31th Internationally Attended Scientific Conference of The Military Technical Academy, Bucureşti, 3-4 noiembrie **2005**, Section I, Armament, Artillery Equipements and Fire Control Systems, pag. I.70-I.75, ISBN 973-640-074-3;

2.8. **Vasile NUŢU**, "*Qualitative Aspects Of Maneuvrable Targets' Tracking Process*", The 31th Internationally Attended Scientific Conference of The Military Technical Academy, Bucureşti, 3-4 noiembrie **2005**, Section I, Armament, Artillery Equipements and Fire Control Systems, pag. I.76-I.82, ISBN 973-640-074-3;

2.9. **Vasile NUŢU**, Nicolae OLTEANU, Marius BĂNICĂ, "*The Influence Of Aircraft Sensors About The Air-Air Shooting Accuracy*", The 36 Th International Scientific Symposium Of The Military Equipment And Technologies Research Agency, May 26-27, **2005**, Bucharest, Vol II, ISBN: 973-0-03923-2, pag.27-32;

2.10. **NUŢU Vasile**, Postolea Dan, Cristian Moldoveanu*, "Individual Electronic Calculus Means For Artillery Shooting",* IIIrd International Symposium on Defence Technology „DEFENCE TECHNOLOGY 2004", Bolyai Janos Military Technical College, Faculty of Zrinyi Miklos National Defence University (al III-lea Simpozion internaţional în tehnologii de apărare), 19-20.04.**2004**, Budapesta, Ungaria, publicat pe CD, ISSN: 1416-1443, poz.27;

2.11. **Vasile NUŢU**, Emil-Cristian Moldoveanu, "*Considerations About The Dynamic Of Target Tracking In Air-Air Shooting*", The 30th Internationally Attended Scientific Conference of The Military Technical Academy, Bucureşti, 6-7 noiembrie **2003**, Section I, Armament, Artillery Equipements and Fire Control Systems, pag. 88-93, ISBN 973-640-012-3;

2.12. **Vasile NUŢU,** "*Studiul influenţei mişcării de ruliu asupra traiectoriei bombelor ghidate prin laser*", a XXXI Sesiune de comunicări Ştiinţifice a Agenţiei de Cercetare pentru Tehnică şi Tehnologii Militare, Bucureşti, **1999**, Volumul I., pag. 207-213;

2.13. **Vasile NUŢU,** "*Metoda de determinare a regimurilor oscilant stabile la sistemele cu timp mort*", a XXVIII Sesiune de comunicări Ştiinţifice a A.T.M., **1999**, Bucureşti, Vol. I, pag 162-167.

Annex 2. The selective list of Projects

Project director

1- Contract **268/28.10.2008, Programul INOVARE,** încheiat între PROOPTICA SA şi AMCSIT Politehnica, în scopul realizării produsului *Subsistem modularizat de conducere şi coordonare a focului, pentru aruncătoare calibru 120/82 autopropulsate, SACF 120/82* (valoare proiect 3607997lei/1996000 finanţare buget),

2- Contract **1492/02.08.2001, RELANSIN,** încheiat între Academia Tehnică Militară şi AMCSIT Politehnica, în scopul realizării produsului *Microcalculator individual specializat pentru trageri de artilerie* (mCISTA),

3- Contract **1228/17.01.2001, RELANSIN,** încheiat între Academia Tehnică Militară şi AMCSIT Politehnica, în scopul realizării produsului *Focos radio de proximitate pentru bombe de aviaţie*,

Team project member

4- Contract 81-016/2007, Programul PNII, perioada 2007-2010, încheiat între CCSANBCE Bucureşti şi AMCSIT Politehnica, în scopul realizării unui *Sistem integrat de protecţie a instalaţiilor de ventilaţie din clădirile de interes naţional strategic în caz de atac cu agenţi chimici şi biologici*;

5- Contract A6155/2006 (SILROS 22-2006), Program CEEX, perioada 2006-2009, *Sistem sinergic pentru lansarea/recuperarea obiectelor satelitare*;

6- Contract 2043/2004, program RELANSIN, perioada 2004-2006, *Sistem de conducere a focului pentru racheta calibru 273mm, cu bătaie de minim 80km*;

7- Contract 1973/2004, perioada 2004-2006, încheiat între Academia Tehnică Militară şi AMCSIT Politehnica, în scopul realizării produsului *Container pentru depozitare, transport şi lansare a loviturii calibrul 273mm*;

8- Contract 1970/2004, încheiat între Academia Tehnică Militară şi AMCSIT Politehnica, în scopul realizării produsului *Instalaţie artileristică de lansare a rachetei calibrul 273mm*.

