

CURRICULUM VITAE

Personal information



First name / Surname **Vasile NUȚU**
Address Bucharest
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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 Coșbuc 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 Coșbuc 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 **21/09/1989 - 01/07/2016**
Name and address of employer Military Technical Academy, George Coșbuc 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. **NUȚU Vasile**, “*Trageri aeriene și bombardament. Modele matematice și algoritmi*”, 284 pagini, Editura: Academia Tehnică Militară, 2021, ISBN 978-973-640-330-0;
2. **NUȚU Vasile**, “*Controlul statistic. Sinteza planurilor de control*”, 136 pagini, Editura Univers Științific, București, 2008, ISBN 978-973-8936-88-1;
3. **NUȚU Vasile**, “*Automatica. Elemente de analiză sistemelor liniare*”, 366 pagini, Editura Academiei Tehnice Militare, București, 2008, ISBN 978-973-640-136-7;
4. **NUȚU Vasile**, “*Elemente de analiză sistemelor automate liniare*”, 312 pagini, Editura Univers Științific, București, 2007, ISBN 978-973-8936-63-8;
5. **NUȚU 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, **NUȚU Vasile**, “*Comanda rachetelor dirijate, Vol. II, Sisteme de acționare 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. **NUȚU Vasile**, Luca Răduțu, “*Sisteme de acționare a comenzilor rachetei. Volumul 2*”, 150 pagini, Editura: Academia Tehnică Militară, 2002, ISBN-973-8290-41-4;
8. **NUȚU Vasile**, “*Trageri aeriene și bombardament. Probleme fundamentale*”, 200 pagini, Editura: Academia Tehnică Militară, 2000, ISBN 973-9456-17-0;
9. Constantin Gheorghe, **NUȚU Vasile**, Puscașu Penică, “*Bazele construcției sistemelor de armament de aviație*”, 600 pagini, Editura: Academia Militară, 1994;
10. Constantin Gheorghe, **NUȚU Vasile**, “*Bazele fiabilității sistemelor de armament*”, 240 pagini, Editura: Academia Tehnică Militară, 1996;

PhD thesis:

“Contribuții la studiul performanțelor sistemelor de urmărire supuse perturbațiilor”, Academia Tehnică Militară, 11 iunie 1999, conducător științific prof. univ. dr. ing. Romulus Petru OTLĂCAN.

Selective list of scientific articles

1. *Published in specialty journals, recognised by CNCSIS:*
 - 1.1. **Vasile NUȚU**, 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 NUȚU**, “*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 NUȚU**, 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 NUȚU**, “*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 NUȚU**, Cristian-Emil MOLDOVEANU, Pamfil ȘOMOIAG, “*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 NUȚU**, “*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 NUȚU**, “*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 NUȚU**, Moldoveanu Cristian, Șomoiaș 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 NUȚU**, Moldoveanu Cristian, Șomoiaș 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 Șomoiaș, **Vasile NUȚU**, 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. **NUȚU 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 NUȚU**, “*The Oscillatory Stable State Of Nonlinear Order Two Systems, With Two Time Constant*”, The 32th Internationally Scientific Conference of The Military Technical Academy, București, 1-2 noiembrie **2007**, ISBN 978-973-640-127-5, Section 9, MODELLING & SIMULATION, index 25, pag. 9.171-9.178;
 - 2.7. **Vasile NUȚU**, “*Cinematic Aspects Of Maneuvrable Targets' Tracking Process*”, The 31th Internationally Attended Scientific Conference of The Military Technical Academy, București, 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 NUȚU**, “*Qualitative Aspects Of Maneuvrable Targets' Tracking Process*”, The 31th Internationally Attended Scientific Conference of The Military Technical Academy, București, 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 NUȚU**, Nicolae OLTEANU, Marius BĂNICĂ, “*The Influence Of Aircraft Sensors About The Air-Air Shooting Accuracy*”, The 36th 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. **NUȚU 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 internațional în tehnologii de apărare), 19-20.04.**2004**, Budapesta, Ungaria, publicat pe CD, ISSN: 1416-1443, poz.27;
 - 2.11. **Vasile NUȚU**, 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, București, 6-7 noiembrie **2003**, Section I, Armament, Artillery Equipements and Fire Control Systems, pag. 88-93, ISBN 973-640-012-3;
 - 2.12. **Vasile NUȚU**, “*Studiul influenței mișcării de rulu asupra traiectoriei bombelor ghidate prin laser*”, a XXXI Sesiune de comunicări Științifice a Agenției de Cercetare pentru Tehnică și Tehnologii Militare, București, **1999**, Volumul I., pag. 207-213;
 - 2.13. **Vasile NUȚU**, “*Metoda de determinare a regimurilor oscilant stabile la sistemele cu timp mort*”, a XXVIII Sesiune de comunicări Științifice a A.T.M., **1999**, București, 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 și AMCSIT Politehnica, în scopul realizării produsului *Subsistem modularizat de conducere și coordonare a focului, pentru aruncătoare calibru 120/82 autopropulsate, SACF 120/82* (valoare proiect 3607997lei/1996000 finanțare buget),
- 2- Contract **1492/02.08.2001**, **RELANSIN**, încheiat între Academia Tehnică Militară și 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 și AMCSIT Politehnica, în scopul realizării produsului *Focos radio de proximitate pentru bombe de aviație*,

Team project member

- 4- Contract 81-016/2007, Programul PNII, perioada 2007-2010, încheiat între CCSANBCE București și AMCSIT Politehnica, în scopul realizării unui *Sistem integrat de protecție a instalațiilor de ventilație din clădirile de interes național strategic în caz de atac cu agenți chimici și biologici*;
- 5- Contract A6155/2006 (SILROS 22-2006), Program CEEEX, 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 și AMCSIT Politehnica, în scopul realizării produsului *Container pentru depozitare, transport și lansare a loviturii calibrul 273mm*;
- 8- Contract 1970/2004, încheiat între Academia Tehnică Militară și AMCSIT Politehnica, în scopul realizării produsului *Instalație artileristică de lansare a rachetei calibrul 273mm*.