



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Adrian Ionuț RADU**
Address(es) Calea Rahovei Street no.305, Bl.52, Sc.1, Et.2, Apt.7, Bucharest, Sect.5, Romania
Telephone(s) - **Mobile:**
Fax(es) +40213355763
E-mail ionut.radu@mta.ro
Nationality Romanian
Date of birth 24.06.1967
Gender male

Work experience

Dates from 2005 to present
Occupation or position held Associate Professor / Faculty of Communications and Electronic Systems for Defence and Security / Department of Military Electronic Systems
Main activities and responsibilities University education activities / Scientific research activities / Students supervising and mentorship / Management of educational activities

Dates 2001 - 2005
Occupation or position held Lecturer / Faculty of Military Electronic and Computer Systems / Department of Communications and Military Electronic Systems
Main activities and responsibilities University education activities / Scientific research activities / Students supervising and mentorship

Dates 1997 - 2001
Occupation or position held Assistant Professor / Faculty of Radar Systems, Communication and Computer Equipments / Department of Radar and Missile Guidance Systems
Main activities and responsibilities University education activities / Scientific research activities / Students supervising

Dates 1994 - 1997
Occupation or position held Research Associate / M.T.A. Scientific Research Laboratory
Main activities and responsibilities Scientific research as a member of a research team

Name and address of employer Military Technical Academy "Ferdinand I", George Coșbuc Avenue no.39-49, Bucharest, Romania
Type of business or sector Education / Scientific research

Education and training

Dates 01/04/1995 - 28/03/2003
Title of qualification awarded PhD, Electronic Engineering and Communication (scientific domain)
Principal subjects/occupational skills covered Radar signals processing, Neural networks

Name and type of organisation providing education and training	Military Technical Academy
Level in national or international classification	ISCED 6
Dates	15/09/1987 - 22/07/1992
Title of qualification awarded	Engineer, Radar Systems (speciality)
Principal subjects/occupational skills covered	Electronics, Signal processing, Antennas, Electronic warfare, Microwaves, Radar systems, Air defence systems
Name and type of organisation providing education and training	Military Technical Academy
Level in national or international classification	ISCED 5
Dates	15/09/1982 - 15/06/1986
Title of qualification awarded	High-school diploma, Mathematics-Physics (profile)
Principal subjects/occupational skills covered	Mathematics, Physics
Name and type of organisation providing education and training	High-School "Bogdan Petriceicu Hasdeu" (Buzău)
Level in national or international classification	ISCED 3

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	-	C1	-	A2	-	A2	-	B2	-

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

Social skills and competences

-

Organisational skills and competences

Experience in the field of project / team management

Technical skills and competences

RF circuits design
Radio Proximity Fuses
Signal processing
Neural networks

Computer skills and competences

Engineering software: OrCAD, Ansoft Designer, Matlab,

Driving licence

B category

Annexes

List of published scientific papers, books and scientific research projects

Annex 1

List of the most relevant scientific papers

a) Conference proceedings

1. I.C.Vizitiu, I.Nicolaescu, A.Stoica, P.Ciofîrnae, **A.Radu**, *An optimal full-genetic technique used to train RBF neural networks*, Proceedings of the 9th International Symposium on Electronics and Telecommunications (ISETC 2010), Timișoara, Romania, November 11-12, 2010, pp.319-322, ISBN 978-1-4244-8458-4, IEEE catalog number CFP1003L-PRT ([IEEEExplore ranked](#))
2. I.C.Vizitiu, I.C.Rîncu, I.Nicolaescu, **A. Radu**, F.Popescu, *Optimal FPGA implementation of GARBF systems*, Proceedings of the 12nd International IEEE Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2010), Brașov, Romania, May 20-21, 2010, pp.774-779, ISBN 978-973-131-080-0, ISSN 1842-0133, IEEE Catalog Number CFP 1022D-CDR ([IEEEExplore ranked](#))
3. I.Nicolaescu, **A.Radu**, A.Ioachim, I.C.Vizitiu, *Radio proximity Doppler sensor with high K dielectric materials*, Proceedings of the International Radar Conference EuRAD 2009, pp.413-416, Rome, Italy, September 30-October 2 2009, ISBN 978-1-4244-4747-3 ([IEEEExplore ranked](#))
4. I.C.Vizitiu, C.Molder, **A.Radu**, D.Munteanu, *A new invariant set for video pattern recognition in ATR systems*, Proceedings of the 11th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2008), Brașov, Romania, May 22-24, 2008, pp.149-154, ISBN 1-4244-1545-4, IEEE Catalog Number 08EX1996C, Library of the Congress 2007905111 ([IEEEExplore ranked](#))
5. I. Nicolaescu, A. Ioachim, M.I. Toacsăn, **A.I. Radu**, M.G. Banciu, L. Nedelcu: *Antenna Based on High Dielectric Constant Materials*, Mediterranean Microwave Symposium 2008, Damascus, Syria, 14-16 October, 2008
6. **A.I. Radu**, A. Ioachim, M.G. Banciu, M.I. Toacsăn, I. Nicolaescu: *High K Dielectric Resonator Antenna*, The 5-th WSEAS International Conference on Applied Electromagnetics, Wireless and Optical Communications - Electrosience '07, Tenerife, Spania
7. **A.I. Radu**, A. Ioachim, M.G. Banciu, M.I. Toacsăn, L. Nedelcu, C.A. Duțu, I. Nicolaescu: *X-Band Filter Manufactured with ZST Dielectric Resonators*, International Semiconductor Conference, CAS2005, October 3-5, Sinaia, Romania, 2005

b) Journals

1. I.C.Vizitiu, P.Ciofîrnae, T.Oroian, **A.Radu**, F.Popescu, C.Avram, *Training of RFB neural networks using a full-genetic approach*, WSEAS Transaction on Information Science and Applications, Issues 8, Volume 7, August 2010, pp. 1015-1024, ISSN 1790-0832 ([ACM](#), [Scopus ranked](#))
2. I.Nicolaescu, **A.Radu**, A.Ioachim, I.C.Vizitiu, *Radio proximity Doppler sensor with high K dielectric materials*, Journal of optoelectronics and advanced materials, vol.12, no.2, pp.267-271, 2010, ISSN 1454-4164 ([ISI ranked](#))
3. A. Ioachim, M. G. Banciu, M. I. Toacsăn, I. Nicolaescu, **A.I. Radu**, *High k Materials Used to Manufacture Miniaturised Dielectric Antennas for Military Applications*, Journal of Optoelectronics and Advanced Materials, Vol.9, No.11, November 2007, p.3592-3597
4. A. Ioachim, M. G. Banciu, M. I. Toacsăn, I. Nicolaescu, **A.I. Radu**, *High k Materials Used to Manufacture Miniaturised Dielectric Antennas for Military Applications*, Journal of Optoelectronics and Advanced Materials, Vol.9, No.11, November 2007, p.3592-3597

Annex 2

List of speciality books

1. Nicolaescu I., **Radu A.I.**, *Signal processing antennas networks*, Editura Militară, București, 2001, ISBN 973-32-0583-4.
2. **Radu A.I.**, *Wide band radar signals processing using time-frequency methods and neural networks*, ERICOM PRINT, București, 2005, ISBN 973-87047-3-1
3. Șerbanescu A., Rădoi E., **Radu A.I.**, *Digital signal processing*, Editura Academiei Technice Militare, București, 2001, ISBN 973-8290-08-2
4. Stoica I.A., **Radu A.I.**, Rogobete M., *Power Electronics*, Part I, MATRIX ROM, București, 2015, ISBN 978-606-25-0154-9.

Annex 3

List of research projects as project manager

1. Contractul C109/10.10.2006 cu MATNANTEC, Programul „Cercetare de excelență” „*Pelicle polimere în sistem compozit utilizate ca mijloace de ecranare electromagnetică în domeniul microundelor (CORAL)*” 3.000.000 RON
2. “*Study of Electronics for Radio Proximity Fuzes*”, Research project from PSCD, Ministry of National Defense, Military Technical Academy, research period: 2008.
3. “*Electronic Fuzes for Artillery and Aviation Ammunition – Technical Study*”, Research project from PSCD, Ministry of National Defense, Military Technical Academy, research period: 2011.

Annex 4

List of research projects as research team member

1. Contract de finanțare nr. 25r/16.12.2005, încheiat cu Agenția Spațială Română, în cadrul programului SECURITATE 2005, cod proiect: S145, *Asigurarea securității obiectivelor militare prin micșorarea suprafeței efective de reflexie cu ajutorul materialelor radioabsorbante*
2. Contract de finanțare 24R din 2005 cu Agenția Spațială Română în cadrul programului SECURITATE 2005 *Subansambluri integrate de microunde pe substrat de tip ZST pentru miniaturizarea sistemelor și echipamentelor portabile de comunicație și teledetecție (ZST)*
3. Grant AT, CNCSIS, 88GR din 29.05.2006, *Dezvoltarea unui sistem inteligent pentru urmărirea și recunoașterea automată a țintelor aeriene (2006-2007)*
4. *Propagarea câmpului electromagnetic în materiale cu constantă dielectrică ridicată cu aplicații în realizarea antenelor și a senzorilor de microunde pentru tehnologiile societății informaționale (PMCDRASSI)*, Proiect de cercetare științifică în PNCDI 2, Academia Tehnică Militară și CNMP, cod proiect 1093/2008, perioada: 2008-2011, valoare totală: 2.000.000 RON
5. *Componente de microunde cu aplicații militare realizate din materiale avansate*, Contract RELANSIN, nr.2140/2004, Subprogramul 1, AMCSIT UPB, perioada: 2004-2006, valoare totală: 110.000 RON
6. *Focos radio de proximitate pentru bombe de aruncător*, Contract RELANSIN, nr.1667/2003, AMCSIT UPB, perioada: 2003-2005, valoare totală: 102.117 RON
7. *Bombă de aviație exploziv-fugasă de 500 kg, tip MK 83 echipată cu focos electronic*, Contract RELANSIN, nr.1977/2004, AMCSIT UPB, perioada: 2004-2006, valoare totală: 150.000 RON
8. *Sistem de reglare a focoaselor de proximitate de la loviturile reactive aflate în pachetul de ghidaje (lansator)*, Contract RELANSIN nr. 1966/2004, AMCSIT UPB, perioada: 2004-2006, valoare totală: 140.000 RON
9. *Focos radio de proximitate pentru muniția trasă din țevi ghintuite, calibrul 99-155 mm*, Contract RELANSIN nr. 713/2000, AMCSIT UPB, perioada: 2000-2003, valoare totală: 72.800 RON
10. *Focos electronic pentru lovitura reactivă 273 mm cu bătaie de minim 80 km*, Contract RELANSIN nr. 1777 și 1778/2003, AMCSIT UPB, perioada: 2003-2005, valoare totală: 341.148 RON
11. *Sistem calibrul 60 mm pentru difuzarea materialelor tipărite*, Contract RELANSIN, nr.1635/2002, AMCSIT UPB, perioada: 2002-2004, valoare totală: 150.000 RON
12. *Sistem defensiv cu muniție telecomandată (MAMP)*, Contract RELANSIN, nr.1222/2001, AMCSIT UPB, perioada: 2001-2003, valoare totală: 20.000 RON
13. *Focos radio de proximitate pentru bombe de aviație*, Contract RELANSIN, nr.1228/2001, AMCSIT UPB, perioada: 2001-2003, valoare totală: 60.000 RON
14. *Focos fuzant electric de timp pentru muniția reactivă de artilerie calibrul 122 mm*, Contract RELANSIN, nr.719/2000, AMCSIT UPB, perioada: 2000-2003, valoare totală: 68.500 RON