



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Daniel Paul IGHIGEANU**

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Nationality Romanian

Date of birth 07.09.1958

Gender Male

### Work experience

Dates July 2014

Occupation or position held Senior researcher 2<sup>nd</sup> degree

Main activities and responsibilities

- Coordination of activities in the team " Electron beam and microwaves applications in materials processing, environmental protection and biomedicine" from Accelerators Laboratory
- Development of installations and unconventional technologies with accelerated electron beams and microwaves for materials processing, chemical processing and technological irradiations in the frame of research projects
- Responsible for the operation of the ALIN-10 electron linear accelerator and coordination and control of the operations of maintenance - repairing, handling and use of the systems which are part of the ALIN-10 and ALID-7 accelerators
- Participation in achieving the laboratory research program and participation in national and international research projects competitions and scientific events
- Preparation and publication of scientific articles

Name and address of employer National Institute for Lasers, Plasma and Radiation Physics (INFLPR), # 409 Atomistilor St., 077125 Magurele, Romania

Type of business or sector Research and development (R&D)

Dates February 1999 – 2014

Occupation or position held Researcher, Researcher 3<sup>rd</sup> degree (from 2001)

Main activities and responsibilities

- Coordination and control of the operations of maintenance - repairing, handling and use of the complex systems that make up the electron linear accelerators built in the Accelerators Laboratory and which are "installations of national interest"
- Responsible for ALIN-10 linear electron accelerator
- Applicative researches with accelerated electron beams and microwaves in materials processing, environmental protection, food preservation, bio-medicine, etc.
- Participation in national and international research projects competitions
- Development of original installations and implementation of non-conventional methods and technologies using electron beam and microwave combined irradiation for materials processing, chemical processing and technological irradiation, in the frame of research projects
- Preparation and publication of scientific articles

	- Leader of the "Electron beam and microwaves applications in materials processing, environment protection and biomedicine" group from 2008 - Head of the Accelerators Laboratory from INFLPR, Oct. 2010- Sept. 2011.
Name and address of employer	National Institute for Lasers, Plasma and Radiation Physics (INFLPR), # 409 Atomistilor St., 077125 Magurele, Romania
Type of business or sector	Research and development (R&D)
Dates	October 1985 – January 1999
Occupation or position held	Engineer, Technologist engineer (from 1988), Researcher (from 1991)
Main activities and responsibilities	- Automation of complex industrial and research installations and equipments for technologies under vacuum - Commissioning at beneficiaries of the installations designed in Section 2 of IFIN-HH and built at Nuclear Apparature Factory - Design of vacuum systems for industry and research - Homologation of some equipments developed in Section 2
Name and address of employer	National Institute of Physics and Nuclear Engineering – Horia Hulubei, # 407 Atomistilor St., 077125 Magurele
Type of business or sector	Research and development (R&D)
Dates	October 1983 – September 1985
Occupation or position held	Engineer
Main activities and responsibilities	- Preparing documentation and tracking in the manufacturing process of the power and automation systems ordered by various customers, including power distribution equipment for NPP Cernavoda; - Participation in commissioning of industrial robots.
Name and address of employer	"Automatica" Factory, # 56 Calea Floreasca rd., Bucharest
Type of business or sector	Automation systems producer

## Education and training

Dates	2003 - 2007
Title of qualification awarded	PhD degree in Electrical Engineering in 2008
Principal subjects/occupational skills covered	Thesis Title: Contributions on Electron Beam and Microwave Combined Irradiation Installations and Electrotechnologies for Environment Protection
Name and type of organisation providing education and training	University "POLITEHNICA" of Bucharest
Level in national or international classification	Academy level (PhD, BSc, Masters Degree, Diploma)
Dates	2007
Title of qualification awarded	Certificate of participation at IAEA Regional Training Course
Principal subjects/occupational skills covered	IAEA Validation and Process Control for Electron Beam Radiation Processing
Name and type of organisation providing education and training	Institute of Nuclear Chemistry and Technology, Warsaw, Poland
Dates	2001
Title of qualification awarded	Graduate of Joint Universities Accelerators School
Principal subjects/occupational skills covered	Technologies and Applications of Particle Accelerators
Name and type of organisation providing education and training	European Organization for Nuclear Research - CERN
Dates	1978 - 1983

Title of qualification awarded | Diplomat engineer  
 Principal subjects/occupational skills covered | Electrical engineering  
 Name and type of organisation providing education and training | University "POLITEHNICA" of Bucharest  
 Level in national or international classification | Academy level (PhD, BSc, Masters Degree, Diploma)

**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			
B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B2	Independent user

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

Social skills and competences

Team spirit gained through my work experience in partnership with different groups in over 20 research projects;  
 Good communication skills gained through participation to numerous international workshops, symposia and conferences as well as through my experience as head of laboratory and group leader;  
 Ability to work under pressure;  
 Hard-worker and open mind.

Organisational skills and competences

Leadership of a group of 10 men from Accelerators Laboratory from 2008  
 Coordination and administration of Accelerators Laboratory (30 people) from INFLPR in 2010 and 2011  
 Good experience in team and project management (Project manager of 1 national research project with a budget around 500 000 € and INFLPR coordinator of 2 national research projects – 185,000 € and 91,000 €)  
 Good sense of organization developed through my work at the scientific publications

Technical skills and competences

- Maintenance and manipulation as responsible of installation of electron accelerators ALIN-10 and ALID-7 from INFLPR.
- Control and measurements of electron beam parameters.
- Maintenance and manipulation of electric devices including microwaves devices and pulsed-high voltage generators from accelerators and from complex experimental installations accomplished in the frame of projects.
- Analytical skills developed through my experimental research work.

Computer skills and competences

Competent with Microsoft Office programs, Origin, Autocad, etc

Driving licence

Category B of vehicle

## Additional information

- Project Manager PNCDI 2, 21-025/2007; Project Responsible for INFLPR CEEEX-AMCSIT 55/2005 and PN-II-PT-PCCA-2013-4-0319;
- Chief Scientific Investigator to IAEA international project.13138/RO (2004 – 2008);
- Team member in other 18 research projects won by competition;
- Third OPTIM 2000-ABB Prize for technical competence displayed in the paper entitled "Processing of SO<sub>2</sub> and NO<sub>x</sub> Removal".
- Author/coauthor in 2 books, 7 book chapters and more than 200 articles, as follows: 23 articles quoted ISI, 22 proceedings indexed ISI, 13 articles in other database journals (Scopus, etc.), 20 articles in other journals with reviewers, 73 proceedings and 65 scientific papers presented to conferences (book of abstracts).
- 2 granted patent; 3 published patents..
- 111 citations (without autocitation) in ISI quoted journals.
- h-index: 8

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