



CURRICULUM VITAE

PERSONAL INFORMATION	COLDEA IOAN DORIAN		
Affiliation	National Institute for Research and Development of Isotopic and Molecular Technologies INCDTIM		
Official Address	Donat Street, No. 65-103,400293, Cluj-Napoca, ROMANIA		
Telephone	0040 264 584037	Mobile	+40 722 62 22 40
Fax	0040 264 420042		
E-mail	Ioan.Coldea@itim-cj.ro		
Nationality	Romanian		
Date of birth	November 26 1955		
Gender	Male		
POSITION WITHIN THE PROJECT	Researcher		
WORK EXPERIENCE			
Dates	1984 - present		
Occupation or position held	Senior Researcher -Technological Development Engineer gr. I. – IDT I		
Main activities and responsibilities	Applied research in isotopic molecular separation - Research in the field of gas chromatography, homologation of some gas chromatograph... - Chromatographic detectors and the study of ionization detectors in radioactive field. Research in the High Tech international program EUREKA - Research and development of a robotized system for cleaning complex surfaces through unconventional method Fundamental and applied research in hydrogen and energy storage in metallic hydride and metal-organic frameworks (MOF) - Thermodynamic and kinetic characterization of metallic-hydrogen system, hydrogen diffusion in solids, advanced hydrogen storage materials for fuel cells. - Design, execution and experimental setup in the field hydrogen storage in metallic hydride. - R&D of advanced technologies of hydrogen and MOFs.		
Name and address of employer	National Institute for R&D of Isotopic and Molecular Technologies, Cluj-Napoca		
Type of business or sector	R&D		
Dates	sept. 1982-oct.1984		
Occupation or position held	Design and Development Engineer		
Main activities and responsibilities	Design and development of tooling machines. - Design and execution for machines.		
Name and address of employer	„Unirea” Company, Cluj Napoca		
Education and training			
Dates	1977 - 1982		
Title of qualification awarded	Bachelor of Science		

Principal subjects/occupational skills covered Mechanical Engineering

Name and type of organization providing education and training Technical University, Mechanical Faculty, Cluj-Napoca

Level in national or international classification Level 7 EQF

Personal skills and competences

Mother tongue Romanian

Other language

English

Russian

UNDERSTANDING				SPEAKING				WRITING	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
A1	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

Communication skills

Team work.

Experience (including managerial experience) in other national/international programmes/ projects:

Programme/Project	Position	Period
Design and development of an intelligent tracking system for complex surfaces, Romania – Austria (Palfinger GmbH Salzburg).	Participant	2001-2002
CORINT Programme: Investigation potential: design, evaluation and testing of ATLAS detector. (IFIN-HH Buc)	Participant	2003-2005
EUREKA Project, E! 2732 / EULASNET LARLASC , Large Area Laser Surface Cleaning (Palfinger GmbH)	Participant	2003-2005
Design and development of a cleaning unit for metallic surfaces through inductive method. Romania – Austria (Palfinger GmbH Salzburg)	Participant	2004-2005
Research and development Gas-chromatograph for CNE Cernavoda (Contract 307/1985)	Project Manager	1985-1987
Pneumatic components homologation for specific gas-chromatograph (Contract 311/1988)	Project Manager	1988-1989
Deuterium gas -chromatograph analyzer: research, design and development. (Contract 1306/1990)	Project Manager	1990-1994
Research, design and development of analyzer with two specific detectors in order to track the quality of environment (1994/ctr139c)	Project Manager	1994-1997
Research, design and development of analyzer with helium ionization detector (Contract 30/1996)	Participant	1996-1998
Chromatographic specify detectors: study of ionization detectors in radioactive environment. (B9/ctr 612)	Project Manager	1998-2001
Research design and development of analytic apparatus with high performances for environment quality control. (B124/2000)	Project Manager	2000-2002
Chromatographic detection systems performing specific trace analysis (PN – 03/2003)	Participant	2003-2005
Research in new physics phenomena in ATLAS experiment using Software ATLAS-GRID – CFFNEALFMSA (PC-D11-PT03-284/IFIN)	Participant	2005-2007

Organizational/managerial skills

Advanced storage materials for H2 fuel cells - STOHIP (CEEX 2006- contract 707)	Participant	2006-2008
Ultrapure hydrogen thermal compressor based on metal hydrides for fuel cells and hybrid vehicles – HYTCOM (CEEX 2006 - contract 708).	Participant	2006-2008
Implementing clean energy technologies for development of a thermic motor based on hydrogen absorbent metallic alloy using solar energy or other residual energy.– TECMOT (PN II 21-023/2007)	Participant	2007-2010
Research on hydrogen absorbing advanced materials and applications in hydrogen storage and compression (PN09-44 01 05)	Project Manager	2008-2010
Achievement of a hydropneumatic innovating system through the involvement of memory effect from the alloy shape, using the metalurgical technology of powders - MMFEH (INOVARE M1 – contract 255/2008)	Project Manager 2	2008-2010
New complex hydrides for hydrogen storage in hydride tank suitable for vehicular applications - STOHIKO – 72-196/2008	Project Manager 2	2008-2010
Issues and challenges for hydrogen storage in composites with metal-organic frameworks, PN-II-ID-PCE-2011-3-0350,	Participant	2012-2018

Job related skills

High Tech. Engineering works, innovative design for products and technologies

Computer skills and competences

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Other skills

ADDITIONAL INFORMATION

Patents for inventions: 3

- G. Blăniță, O. Ardelean, D. Lupu, E. Surducan, G. Borodi, M. Vlassa, I. Misan, I. Coldea, A.R. Biris, G. Popeneciu, V. Surducan, Inventors, NIR&DIMT assignee, *Synthesis of metal-organic structures by microwave activation under atmospheric pressure*, Romanian patent RO 126343-B1, 2012.
- G. Blăniță, D.M. Lupu, O.N. Ardelean, M. Lazar, G. Borodi, M. Vlassa, I. Misan, I.D. Coldea, A.R. Biris, G. Popeneciu, Inventors, NIR&DIMT assignee, *Preparation of porous-metal-organic structures/carbon structures composites*, Romanian patent RO 126098-B1, 2013.
- G. Blăniță, D.M. Lupu, M. Vlassa, A.R. Biriș, I. Mișan, G. Popeneciu, I.D. Coldea, O.N. Ardelean, Inventors, NIR&DIMT assignee, *Composites of porous metal-organic structures and carbon structures for storing hydrogen*, Romanian patent RO 125846-B1, 2014.

Development of new research thematic in INCDTIM Cluj-Napoca

- Gas chromatographic specific and ionization detectors
- High Tech engineering field