


PERSONAL INFORMATION

Arcadii Sobetkii

 Sector 2, Bucharest, Romania

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 arcadii@imnr.ro

Date of birth 27 July 1988



WORK EXPERIENCE

2013 – present

Scientific Researcher

National Research-Development Institute for Non-Ferrous and Rare Metals – IMNR
102, Biruinței, ILFOV, Romania.

Research in thin film deposition by operating two PVD systems: PC Controlled Multi Pocket Electron Beam Evaporation system with 5 e-beam guns and Thermal Evaporation system.

Atomic Force Microscopy (AFM) measurements.

2011 – 2013

Engineer

SC MGM STAR CONSTRUCT SRL
7, Pancota, Bucharest, 022773, Romania

IT, technological processes for vacuum deposition, lithography and optics, optical, electrical and mechanical measurements and tests.

Member of research/development team.

Business or sector Manufacturer of PVD coatings and optical components

EDUCATION AND TRAINING

2011 – 2013

Master's degree

Level 7 CEC

Politehnica University of Bucharest, Faculty of Applied Sciences, Bucharest, Romania.

Photonics and Advanced Materials.

Dissertation title: Studies and realization of optical antireflective coatings with photometric control.

2007 – 2011

Bachelor degree

Level 6 CEC

Politehnica University of Bucharest, Faculty of Applied Sciences, Bucharest, Romania.

Mathematics and Informatics Applied in Engineering.

2003 – 2007

High School Diploma

"Sfântul Pantelimon" high school, Bucharest, Romania.

Math and Computer Science track.

PERSONAL SKILLS

Mother tongue Romanian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English	C2	C2	C2	C2	C2
Russian	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills - good communication skills and attention to details gained through my experience as researcher and from participating in research projects.

Organisational / managerial skills - good organizational skills gained as researcher such as delegation, public speaking, listening skills, problem solving, documentation.
- leadership (responsible for training the team and work with them on operating the PVD equipment)
- good team-leading skills as I was in the university table tennis team.

Job-related skills - Vacuum technology – operating various PVD equipment with e-beam guns, resistive, cathodic arc, AGD and DC/RF sputtering for thin film depositions.
- Obtaining nanoparticles, single, multilayer or co-depositing thin films of different metals and oxides for electronic, optical and high temperature applications like gas sensors, biosensors, mirrors, beam-splitters, antireflective coatings, thermal barrier coatings and high entropy alloys.
- In situ photometric and physical control of deposition rate and layer thickness.
- Photolithographic processes – knowledge in developing gas sensors, reticles and diffractive optical elements (DOE).
- Measurements and tests – operating spectrophotometers, optical and electronic microscopes, AFM, profilometers and surface resistivimeter.

Computer skills Computer Operator Certificate (C++, FoxPro, Microsoft Office)
Infographic course in AutoCad, Catia.
A good knowledge of Matlab, Origin, Mathcad, LaTeX, LOGO!, TFCalc, Gromacs, Linux, Python.
Advanced computer skills - software/hardware installations and updating.

Other skills PC overclocking and modding.
Was legitimate player in the municipal table tennis championship.

Driving licence B

ADDITIONAL INFORMATION

Published articles - 4 ISI articles and 4 national patents as co-author in PVD coating technology.

Projects - Participated in 6 international projects as a member and key person: Supermat, Manucoat, Monamix, Trospense, Aero-coat, Sfera and 3 national projects: Sensgas, PN16200201 and PN19190401.

Trainings and conferences - Carried out 8 training internships within the Supermat, Trospense, Sfera projects as well as 6 participations in international conferences with oral presentations such as EMRS and EmergeMAT.