

PERSONAL INFORMATION

Radu Bosoanca



 3 Romana Street, D3A building, 43 flat, 800122 Galati, Romania

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 [radu.bosoanca@ugal.ro](mailto:radu.bosoanca@ugal.ro)

Sex Male | Date of birth 22.03.1988 | Nationality Romanian

WORK EXPERIENCE

10/2017- Present

**Assistant**

Naval Architecture Faculty, "Dunarea de Jos" University of Galati, Romania

- Conducting and preparing laboratory classes for students

Business or sector Higher education / University

03/2013 - Present

**M Sc Senior Engineer**

S.C. Grupul de Masuratori si Diagnoza srl, 105 Domneasca Street, C1 building, 1.1.5 room, Galati, România, [diagnose.group@yahoo.com](mailto:diagnose.group@yahoo.com)

- Preparing procedures for test measurements, according to ISO and classification societies rules.
- Performing on site measurements both in marine field - onboard ships, and in terrestrial field;
- Analysis and reporting of data for:  
Marine: Power-speed, torsional vibration, bollard pull, manoeuvrability, general/structural/equipment vibration, noise assessment;  
Terrestrial: Noise mapping (cities, harbours, highways), general population exposure to high noises, thermovision inspection (electrical, mechanical)

Business or sector Naval Architecture and Consultancy

03/2012-03/2013

**Junior engineer**

S.C. Grupul de Masuratori si Diagnoza srl

- Performing on site measurements both in marine field - onboard ships, and in terrestrial field;

Business or sector Naval Architecture and Consultancy

10/2007-03/2012

**Student worker**

S.C. Grupul de Masuratori si Diagnoza srl

- Performing on site measurements both in marine field - onboard ships, and in terrestrial field;

Business or sector Naval Architecture and Consultancy

EDUCATION AND TRAINING

10/2015 - Present

**PhD Student**

"Dunarea de Jos" University of Galati, Romania

- Thesis name: " RESEARCH REGARDING MECHANICAL CHARACTERISTICS OF COMPOSITE MATERIALS WITH REINFORCED FABRIC AND POLIMERIC MATRIX WITH ELASTICITY GRADIENT"

2011-2013

**Master degree in Naval Architecture - M Sc Engineer**

Naval Architecture Faculty, "Dunarea de Jos" University of Galati, Romania

- Ability to carry out fundamental and applicative research in naval architecture;
- Knowledge of the naval architecture basic elements, advanced design and research techniques;
- Capacity for collecting, processing and preliminary analysis of the experimental data;
- Understanding and active taking part in optimising of the research activities;

- Advanced knowledge in ship forms design and optimisation
- Ability to determine numerically the ship's hydrodynamic performances (resistance and propulsion, manoeuvrability and seakeeping);
- Ability to determine the state of stresses and deformations into the ship hull structure, based on numerical finite element method;
- Advanced knowledge in using specialized software;
- Detailed knowledge of ship propulsion topics;
- Detailed knowledge of experimental methods for ship onboard induced vibration analysis.

10/2012–10/2012

Certified Level 1 Thermographer

Institute of Infrared Thermography (United Kingdom)

11/2013–12/2013

Certificate in "Radiological security using ionizing radiation sources"

National Institute of R&D for Physics and Nuclear engineering "Horia Hulubei" 30 Reactorului Street, Bucharest (Romania)

<http://www.nipne.ro/index.php>

- -measurement, analysis and reporting of thermography inspection according to ISO and classification societies;
- -Radiation Protection on the Utilization of Measurement Systems with Radiation Sources
- -Radiological Safety on the Utilization of Sealed Sources (SI)/Radiation Generators (GR)

2007-2011

Bachelor degree in Naval Architecture - Engineer

Naval Architecture Faculty, "Dunarea de Jos" University of Galati, Romania

- Hull design skills using techniques and tools for CAD-CAE systems;
- Calculation of ship hydrodynamic performance through computing;
- Main speciality courses: Ship dynamics in rough sea, Ship equipment and deck machinery, Ship manoeuvrability and Steering, Mechanics of Naval Structures, Hull design and forward resistance, Propeller theory, Local and general vibrations, Finite elements method in shipbuilding, Hull manufacturing technology, Shipbuilding management, Naval architecture, Naval propulsion systems, Small ships, Technical ships, Ship's Trials, Rules and conventions in Naval Architecture;

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	B2	B2	B2

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

Communication skills

Capacity to work efficiently in complex and multicultural teams;  
-Skills to communicate and negotiate;  
-Skills to communicate effectively and efficiently in English language both face to face and through modern technical equipment;  
-Capacity to adapt quickly and effectively as a researcher in variety types of institutions;  
These skills were attained during company managed projects (European funded projects) and college team projects.

Organisational / managerial skills

- Assistant manager skills (May.2014-December.2015): planning, problem-solving, decision-making skills attained by being part European funded project (POS-CCE): "Research and technological transfer of advanced materials, nano-structured and manufacturing technologies for development of renewable energy systems", SMIS code 50414;  
In this project I was in charge with public acquisitions, and also a member in the research team.  
- Assistant Manager skills (2011- 2018) in a European funded project (POS-T): "Monitoring of environment impact of the construction for navigation improvement on the Danube, between Călărași and Braila, km 375 and km 175;

- Job-related skills**
- In project “Research and technological transfer of advanced materials, nano-structured and manufacturing technologies for development of renewable energy systems”, I was a member in the research team that designed and formed polymeric composite materials, which, at the outer shell, could allow obtaining energy through solar energy conversion, or thermally or that of deformation.
  - Also, I was a member in the same team, that tested the formed materials for mechanical and electromagnetic properties.
- Computer skills**
- Advanced user of various engineering software's:
- Vibroexpert;
  - Cat74;
  - SmartView;
  - AutoCAD;
  - Noise explorer;
  - IMMI;
  - Catia;
  - U-center;
  - B&K Noise Explorer;
  - Datum electronics acquisition software;
  - Microsoft office (word, excel, power point, teams) etc.
- Driving licence**
- B

## ADDITIONAL INFORMATION

## Publications

- Crudu, L., **Bosoancă, R.**, & Obreja, D. (2020). **A comparative review of the resistance of a 37,000 dwt Chemical Tanker based on experimental tests and calculations**. Technium: Romanian, Journal of Applied Sciences and Technology, Vol. 1, 59-66. <https://doi.org/10.47577/technium.v1i.32>;
- **Radu Bosoancă**, Vasile Bria, Claudiu Mereuță, Adrian Cîrciumaru\*, Iulian-Gabriel Bîrsan, **Tensile Analysis of Fabric Reinforced Materials**, Materiale Plastice, Vol. 56, nr. 4, pp. 705-714, 2019, ISSN 0025-5289, <https://doi.org/10.37358/MP.19.4.5257> ;
- Rodica Chihai, Mihaela Gorovei, **R. Bosoancă**, S. M. Drăghici, A. Cîrciumaru, **Effect of inorganic agents on the tribologic behavior of epoxy resins**, Poster presentation. The 10<sup>th</sup> International Conference BALTRIB'2019, Vytautas Magnus University 14–16 November 2019. <https://10times.com/international-conference-baltrib>
- Rodica Chihai, Mihaela Gorovei, R. Bosoancă, S. M. Drăghici, A. Cîrciumaru, Effect of inorganic agents on the tribologic behavior of epoxy resins, Poster presentation. The 10th International Conference BALTRIB'2019, Vytautas Magnus University 14–16 November 2019. <https://10times.com/international-conference-baltrib> ;
- V. Stefanescu, A. Boboc, A. Cojan, **R. Bosoanca**, C. Muntenita, M. Bunea, **The Thermal Behavior of Hybrid Fabric Reinforced Composites with Stratified Filled Epoxy Matrix**. Materiale Plastice, vol. 55, no. 2, pp. 161-167, 2018, ISSN 0025-5289, <https://doi.org/10.37358/MP.18.2.4986> ;
- M. Bunea, **R. Bosoanca**, A. Cojan, I.G. Birsan, **Thermomechanical and Electrical Properties of Fabric Reinforced Laminates with Filled Stratified Epoxy Matrix**. Materiale Plastice, vol. 55, no. 3, pp. 269-273, 2018, ISSN 0025-5289, <https://doi.org/10.37358/MP.18.3.5011> ;
- Mihai Gingărașu, Elena Mereuță, Valentin-Tiberiu Amorțilă, Costel Humelnicu, **Radu Bosoancă, Diagnosis of Vehicle Steering Systems Using Vibration Analysis of Component Parts**, Scientific Conference of Doctoral Schools – Perspectives and challenges in doctoral research, SCDS-UDJG 2019, The Seventh Edition, Galați, 13th-14th of June 2018, S.1.: Advanced research in mechanical and industrial engineering, prezentare poster nr. OP.1.11;
- I Bălan, **R Bosoancă**, A Căpățină, I Graur, V Bria, C Ungureanu, **A study regarding friction behaviour of lysine and isoleucine modified epoxy matrix**, 13th International Conference on Tribology (ROTRIB'16) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 174 Article Number: UNSP 012023 Published: 2017;
- M. Dimofte, M. Bunea, A. Capatina, A. Cojan, **R. Bosoanca**, A. Cîrciumaru, **Tensile and Bending Analysis of Fabric Reinforced Graded Epoxy Composites**, Materiale Plastice, vol. 54, no. 2, pp. 362-367, 2017, ISSN 0025-5289, <https://doi.org/10.37358/MP.17.2.4852> ;
- M. Bunea, **R. Bosoanca**, C. Eni, N. Cristache, V. Stefanescu, **The Impact Characteristics of Fabric Reinforced Hybrid Composites**. Materiale Plastice, vol. 54, no. 2, pp. 286-290, 2017, ISSN

0025-5289, <https://doi.org/10.37358/MP.17.2.4834> ;

- Cîrciumaru, A., Bîrsan, I. G., Graur, Iulia, **Bosoancă, R., Tribological Analysis of Aminoacids Modified Epoxy Resins**, BalkanTRIB'17, 9<sup>th</sup> International Conference on Tribology, 13-15 septembrie 2017, Cappadocia, Turkey;
- Iulia Graur, Mara Dimofte, Cristian Munteniță, **Radu Bosoancă**, Vasile Bria, Marina Bunea, **Friction Coefficient of Reinforced Epoxy Laminates**, Proceedings of 15th International Conference on Tribology, Kragujevac, Serbia, pp.157-162, 17 – 19 May 2017;
- Iulia Graur, Ioan Bosoancă, **Radu Bosoancă**, Marius Bodor, Adrian Cîrciumaru, **Thermal Analysis of Ionic Substances Doped Epoxy**, Revista de Chimie, ISSN 0034-7752, vol.66. nr.11, pp.1759-1762, 2015;
- M. Bunea, I. Bosoancă, **R. Bosoancă**, M. Bodor, A. Cîrciumaru, **Bending and Compressive Properties of Fabric Reinforced Composites**, Revista Materiale Plastice, ISSN 0025/5289 vol. 52, nr. 3/2015;
- Ioan Bosoanca, **Radu Bosoanca**, Iulia Graur, Ionut Mihalache, Marius Bodor, Adrian Cîrciumaru, Vasile Bria, **Properties of Organic Diluted Epoxy Matrix**, FIT 2015 Proceedings, ISBN 978-619-167-178-6, 2015;
- Iulia Graur, I Bosoanca, **R. Bosoanca**, A. Cîrciumaru, I. Mihalache, M. Bodor 2015, **Effect of UltraSonication On Some Properties of Ionic Substances Doped Epoxy**, "The 26th Annual International SICOMP CONFERENCE on Manufacturing and Design of composites", Sweden, Gothenburg June 1-2, 2015;
- Mihai Botan, Ioan Bosoanca, **Radu Bosoanca**, Iulia Graur, Ionut Mihalache, Marius Bodor, **Abrasive wear of salts doped epoxy composites**, 11th International Conference on Tribology, BULTRIB'15, 11-13 septembrie, Sozopol, Bulgaria, 2015;
- Bosoanca, **R. Bosoanca**, G. Mihiu, M. Bodor, C. Muntenita, I. Mihalache, I. Graur, C. Ungureanu, A. Cîrciumaru, V. Bria, **Tribological behaviour of in situ nanostructured polymers**, VIII International conference BALTRIB' 2015, 26-27 November 2015, Akademija, Kaunas, Lithuania;
- M. Bunea, I. Bosoanca, **R. Bosoanca**, G. Mihiu, M. Bodor, C. Muntenita, I. Graur, C. Ungureanu, A. Cîrciumaru, V. Bria, **Tribological behaviour of stratified composites**, VIII International conference BALTRIB' 2015, 26-27 November 2015, Akademija, Kaunas, Lithuania;
- I. Bosoanca, **R. Bosoanca**, I. Graur, A. Cîrciumaru **Ion doped epoxy resin**, la UGAL INVENT, Research and Innovation Exhibition, Dunarea de Jos University of Galati, România, 8 – 10 October 2014;
- Bosoanca I., Pirvulescu R., **Bosoanca R., New rules in marine pollution field**; the annals of "Dunarea de Jos" University of Galati, Fascicle XI – shipbuilding. ISSN 1221-4620,2013;
- **Bosoanca R., Crudu L., Influence of aft modifications on manoeuvrability characteristics of a tanker based on full scale trials**; the annals of "Dunarea de Jos" University of Galati, Fascicle XI – shipbuilding. ISSN 1221-4620,2013;
- Bosoanca I., Pirvulescu R., **Bosoanca R., Experimental research regarding power saving using novel additional system for ships with full form**; the annals of "Dunarea de Jos" University of Galati, Fascicle XI – shipbuilding. ISSN 1221-4620,2013;
- I. Bosoancă, R. Pirvulescu, L. Moraru, **R. Bosoancă, Contributions to reduce the vibrations onboard ships using additional systems**, The Annals Of "Dunarea De Jos" University of Galati Fascicle Xi – Shipbuilding, pp125-131. ISSN 1221-4620, 2008.

#### Patent

- Patent application title: Process for obtaining epoxy matrices doped with metallic ions; Applicant: SC Grupul de Măsuratori și Diagnoză SRL Galați; Authors: A. Cîrciumaru, R. Bosoanca, I. Bosoanca, I. Graur, M. Bodor, I. Mihalache; registered A/00333 from 15.05.2015

#### References

See below diplomas

# *Institute of Infrared Thermography*

*Declares that*

**According to the American Society of Non-Destructive  
Testing SNT-TC-1A standard;**

# **Bosoanca Radu**

*Has completed the course to become a*

## *Certified Level 1 Thermographer*

**21st September 2012**



Trainer's Name: A J Dunne  
Training Declaration Number: C2162  
Trainer's PCN Certification Number: 300040



Trainer's Signature:

The Course conforms to ASNT SNT-TC-1A, ISO 18436-7 & BINDT CM/GEN App B.  
Level 1 syllabus comprises competence / practical skills assessment and a training examination.

