



## Curriculum vitae Europass



### Personal data

Name / Forename

**TUNS V IOAN**

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Nationality (ies)

Romanian

Gender

male

### Career field

**TRANSILVANIA University of Brasov –Civil Engineering Faculty**  
**Teaching activity and scientific research in the academic field.**

### Professional experience

Period

**2007-present**

Position held

**University professor/ Dean of the Civil Engineering Faculty**

Main activities and responsibilities

Teaching activities for the bachelor and masters cycles of study as tenure teacher for subjects:

- Foundations;
- Civil constructions 3- Calculation of structures for civil buildings;
- Rehabilitation of the infrastructure and foundation land for constructions;
- Rehabilitation of infrastructure and land for engineering constructions;
- Evaluation and certification of the energy performance of buildings;
- The technology of maintenance, repair and consolidation works

Scientific research activity achieved by contracts/grants; publishing of articles and specialized books;

Organizing and participating in national and international scientific actions;

Organizing and participating in student scientific actions;

Chairman or member of the bachelor and masters committees;

Management activities as dean related to: teaching activities; scientific research;

Strategy for faculty development, quality management; internal and international view of the faculty; relations with the university and social- economic environment; material base, etc.

Name and address of the employer

TRANSILVANIA University of Brasov

Type or field of activity

Technical superior education

Period

**2004-2007**

Position held

**University lecturer/ vice-dean of the Civil Engineering Faculty**

Main activities and responsibilities

Teaching activities for the bachelor and masters cycles of study as tenure teacher for subjects:

- Foundations;
- Civil constructions 3- Calculation of structures for civil buildings;
- Rehabilitation of the infrastructure and foundation land for constructions;
- Rehabilitation of infrastructure and land for engineering constructions;
- Evaluation and certification of energy performance of buildings;

Scientific research activity achieved by contracts/grants; publishing of articles and specialized books;

Organizing and participating in national and international scientific actions;

Organizing and participating in student scientific actions;

Chairman or member of the bachelor and masters committees;

Management activities as vice-dean related to: scientific research activity;

Assuring the accommodation and practice of students; quality assurance; relations with the university and social-economic environment; etc.

Name and address of the employer

TRANSILVANIA University of Brasov

Type or field of activity	Technical superior education
Period	<b>2002-2004</b>
Position held	<b>Senior lecturer</b>
Main activities and responsibilities	Teaching activities for the bachelor and masters cycles of study as course and seminar/practice tenure teacher for subjects: <ul style="list-style-type: none"> <li>• Foundations and foundation procedures -course;</li> <li>• Civil constructions – general course;</li> <li>• Technology of construction works - project;</li> <li>• Organizing construction works - project</li> </ul> Scientific research activity; Participating in national scientific actions.
Name and address of the employer	TRANSILVANIA University of Brasov
Type or field of activity	Technical superior education
Period	<b>1992-2002</b>
Position held	<b>Technical director/ Chief Executive Officer</b>
Main activities and responsibilities	Coordination and management of performance activities of construction works – over 100 objectives; Covering the management of construction units, which implies: covering the order report and work progress, implementation of modern work techniques and technologies; use of new materials; assuring and keeping the collaboration relations with work partners; the strategy for developing construction units; quality management and staff policy, etc.
Name and address of the employer	SC ZADA SA Codlea, Muntisor str. no. 43, Codlea, Brasov
Type or field of activity	Performance of construction works
Period	<b>1988-1992</b>
Position held	<b>Team deputy chief</b>
Main activities and responsibilities	Monitoring and coordinating the execution of construction works – over 50 investment objects; Monitoring the quality assurance of construction works; Monitoring the meeting of work safety norms and fire proof onsite; Monitoring the provision of technical facilities, materials and work force necessary for the performance of works, etc.
Name and address of the employer	SC ZADA SA Codlea, Muntisor str. no. 43, Codlea, Brasov;
Type or field of activity	Performance of construction works
Period	<b>1982-1988</b>
Position held	<b>Site manager</b>
Main activities and responsibilities	Performance of construction works- over 20 investment objects; Responsible with performing the construction works; Responsible with assuring the quality of the works performed; Responsible with meeting the work protection norms by the staff involved in the project; Meeting the partial and final performance terms, etc
Name and address of the employer	SC ZADA SA Codlea, Muntisor str. no. 43, Codlea, Brasov;
Type or field of activity	Performance of construction works
<b>Education and qualifications</b>	
Period	<b>2004- – Post university course “Energy auditor – Constructions – 1<sup>st</sup> Degree”</b>
Qualification/Diploma acquired	<b>Graduation Certificate</b>
Studied disciplines / professional skills	Elements of constructions physics; Thermal transfer and mass issues; Thermal expert examination and energy audit of buildings; Specific norms in effect/ Certifying the energy performance of buildings; Energy audit.
Name and type of education institution / Training provider	Technical University of Cluj-Napoca – Faculty of Constructions and Architecture
Level in national or international classification	University classification: research- teaching; Classification of ranking field: State superior academic unit
Period	<b>1997–2003 -:„Gh. Asachi” Technical University of Iasi – Faculty of Constructions and Installations – doctoral internship.</b>
Qualification/Diploma acquired	Diploma acquired: <b>Doctor in the field of “Civil Engineering”</b>
Studied disciplines / professional skills	Subjects and publications in the country and abroad related to the theme discussed/ Structural rehabilitation of constructions; Developing the researcher profile; Able to discuss the scientific research issue; Acquiring solid and high knowledge in the field of the theme discussed, etc.

Name and type of education institution / Training provider	„Gh. Asachi” Technical University of Iasi – Faculty of Constructions and Installations
Level in national or international classification	University classification: research- teaching; Classification of ranking field: State superior academic unit
Period	<b>1977-1982 : Faculty of Constructions – Iasi Polytechnic Institute;</b>
Qualification/Diploma acquired	Diploma acquired: <b>Engineer diploma;</b>
Studied disciplines / professional skills	Mathematical analysis; Linear algebra; Topography; Technology I, II; Mechanics I, II; Material resistance I, II; Statics and rehabilitation of constructions I, II; Geology, geotechnics and groundworks I, II, Civil constructions I, II; Agricultural constructions; Industrial constructions; Metallic constructions I, II; Special constructions from concrete steel; Earthquake engineering; Organization and management of production; Organization and management of main sites / Identification and validation of construction materials, elements and structures, Monitoring the course of construction works in terms of quantity, quality and of execution terms; Assuring the quality control of the works by specialized services; Teaching, project, research activity, etc.
Name and type of education institution / Training provider	Iasi Polytechnic Institute, Faculty of Constructions; (Gh. Asachi” Technical University of Iasi – Faculty of Constructions and Installations) – current name
Level in national or international classification	University classification: research- teaching; Classification of ranking field: State superior academic unit
Period	<b>18.11.1989 – 10.02.1990; Specialized Training COCC Bucharest „Organization and management of teams for C+M”;</b>
Qualification/Diploma acquired	Diploma acquired: <b>Graduation Certificate</b>
Studied disciplines / professional skills	Organization and management of construction activities; Issues regarding staff sizing and work norms; Streamline of work process in constructions; Modern technologies and processes in constructions; Construction law/ Organization and management of construction units.
Name and type of education institution / Training provider	Ministry of Industrial Constructions Center of Organization and Cybernetics in Constructions (COCC) Bucharest
Level in national or international classification	Unit of national significance
Period	<b>1983 (3 months) : Specialized Training COCC-Bucharest;</b>
Qualification/Diploma acquired	Diploma acquired: <b>Graduation Certificate.</b>
Studied disciplines / professional skills	Programming of processes and activities in constructions; Modern materials and technologies in constructions; Computer use in constructions; Construction law/ Organization and management of construction units.
Name and type of education institution / Training provider	Ministry of Industrial Constructions Center of Organization and Cybernetics in Constructions (COCC) Bucharest
Level in national or international classification	Unit of national significance
Period	<b>1971 – 1976: Industrial High School for Construction and Architecture;</b>
Qualification/Diploma acquired	<b>High School Diploma</b>
Studied disciplines / professional skills	Romanian language and literature; French; English; Mathematics; Mechanical drawing; study of construction materials; material resistance and construction statics; Topography; Constructions and technology of construction works; Concrete steel; Construction installations; Construction machinery; Practical training in production/ Identifying the construction materials and elements; Acquiring the medium level skills and knowledge in constructions; Acquiring the knowledge to graduate following a graduation exam in the superior education cycle.
Name and type of education institution / Training provider	Ministry of Education; Industrial High School for Construction and Architecture – Baia Mare, Maramures county
Level in national or international classification	High school education unit
<b>Personal skills and abilities</b>	
Mother tongue (s)	Romanian

Foreign Languages Auto-evaluation	<b>Comprehension</b>		<b>Speaking</b>		<b>Writing</b>		
	Listening		Reading		Participating in conversations	Listening	Reading
	medium	advanced	French		French	French	
	medium	medium	English		English	English	
Social skills and abilities	Team, group, collective work; Outgoing, but slightly reserved in the integration period; Recognizing and appreciating the qualities of the team, group, collective members and partners; Sympathy and team spirit; Promoting and maintaining moral and professional values of the individual, group, collective; Constant preoccupation for self-improvement; Easy to adapt, etc.						
Management skills and abilities	Organizing and leading work skills within the team, group, collectivity; Able to empower a team, group, collectivity in order to achieve the targeted objective(s); Skills in welding and sympathizing the collective/collectives; Able to form teams, groups, collectives etc. The skills and abilities provided have been achieved in a period of over 29 years as a team, group and collective organizer and coordinator in construction and superior education units as site manager, team deputy chief, technical director, chief executive officer in the acting period in construction units, respectively, vice-dean and dean during the work period in the superior education unit.						
Technical skills and abilities	Identifying and validating materials and structures for constructions; Implementation of technologies, processes and modern materials in the performance of construction works; Design, calculation and assembling of elements and structures for constructions; Identifying and applying technical norms in constructions in design, project and exploitation phases; Management of construction work quality; Management of construction work safety, etc. The technical skills and abilities mentioned above have been acquired through high school (5 years) and qualified technical superior education (5 years), through the execution activity in constructions (20 years), teaching activity and scientific research (over 9 years), doctoral internship (6 years), post-university studies, training courses, participating in national and international scientific actions, concluding and publishing of specialized books and articles, performance of contracts and grants, individual study, etc.						
PC skills and abilities	Document elaboration; Static and dynamic calculation of structures; Assembling and sizing of construction elements and structures; Certifying the energy capacities of buildings and related installations, etc. The computer skills and abilities have been acquired through individual exercise and study through initiation and training courses by concluding the doctoral thesis by practical applications performed on contracts with social-economical background, etc.						
Other skills and abilities	<b>Specializations and qualifications acquired:</b> - authorized energy auditor II <sup>nd</sup> degree; - MDLPA certificate: Technical coordinator performing in the fields of: 1.1 Civil industrial and agricultural constructions (I) 9.1 Urban and community household constructions (IX); - certified by the State Inspectorate for Constructions as site supervisor in the fields of: 2.4 Civil industrial and agricultural constructions; 6. Urban and community household constructions						
Driver's license	Holder of driver's license, class B;						
Additional information	<b>The teaching and scientific research activity has been concluded through:</b> <b>A. Books and articles:</b> <ul style="list-style-type: none"> <li>• 7 specialized books as individual author (3), first author (3), co-author (1);</li> <li>• 4 updated course materials for the subjects taught;</li> <li>• 61 ISI articles and/or recorded in BDI and/or published in CNCSIS certified magazines as individual, first author and co-author;</li> <li>• 21 articles published in the volumes of certain international scientific actions held in the country and abroad;</li> <li>• 53 articles published in the volumes of certain national scientific actions;</li> </ul> <b>B. Research– development projects based on international/national contract/grant as director, principal, member:</b> <ul style="list-style-type: none"> <li>• The LEONARDO international education grant performed within the Civil Engineering Faculty from the TRANSILVANIA University of Brasov, partner of „Vitus Bering University”</li> </ul>						

Denmark” in the performance of the grant - **”Vocational Flexible Learning at the Workplace (Learn at work) ”**

- Research-development project based on a contract achieved by national contest performed through the Firm Association Agreement with UTCB/INCERC/UTCN/UTP/UAUIM/UTGAI/UTrB, Registration no. UTrB1347/10.12.2006 regarding the elaboration of **„The calculation methodology of the energy performance of buildings. Part 3 – The audit and performance certificate of the building.”**
- Research-project contracts in the economic background, such as :

Program/ Project	Position	Period
1. 6450/06.05.2011 „ <b>Studies and researches regarding the optimal compacting conditions of cohesive lands - Ghimbav Brasov airport</b> ” Beneficiary : SC Kasim Emaka SRL ;	Contract principal	May- Dec. 2011
2. 3986/25.07.2013 „ <b>Studies and researches regarding the identification and implementation of optimal compacting processes of lands and the performance of airport movement surfaces related to the Ghimbav – Brasov International Airport Airstrip investment</b> ”, Beneficiary : County Council of Brasov	Contract principal	July 2013 – Dec. 2014
3. 16203/11.12.2014 „ <b>Research regarding the evaluation of the degradation state of a manufacturing building with designation <i>Surface treatments</i> exposed to chemical aggression of the operating environment. Identifying and suggesting structural rehabilitation solutions.</b> ”	Contract principal	15.12.2014 – 20.04.2015
4. 8016/14.07.2015 „ <b>Research regarding the identification and design of optimal solutions for functional modification of an existing space in: <i>Workshop for capping airplane structures and simple parts</i></b> ”	Contract principal	15.07.2015 – 20.10.2015
5. 7505/July 2016„ <b>Counseling and consultant services in order to promote the technical-economic documentation of constructions and installations for the approval in CTe of the technical project: Design and execution Rehabilitation Brasov County Emergency Clinical Hospital - Beneficiary: CJ Brasov</b>	Contract principal	July 2016
6. 16250/2016 <b>Research on the identification and design of the optimal solution for a mixed, annular and branched water supply system operating in industrial exploitation regime - Beneficiary: IAR Ghimbav</b>	Contract Principal	15.12.2016
7. 17969/27.12.2016 <b>Research regarding the identification and design of the optimal solutions for the Modernization of the Painting Workshops, Plastic Masses and the Preheated Fresh Air Compensation Installations at the</b>	Contract Principal	28.12.2016 – 27.10.2017

<p align="center"><b>Surface Treatments Workshop - Beneficiary: IAR Ghimbav</b></p> <p><b>8.15839/2017</b> Technical assistance services, research and technical and geotechnical expertise a the land included between Molidului str Valea Cetatii Blvd., as well as the land located upstream from Molidului str Brasov Municipality - Beneficiary: Brasov City Hall</p>	<p align="center">Contract Principal</p>	<p align="center">15839/2017</p>
<p><b>9.13360/23.10.2019</b> Supervisory services,technical consultancy in view implementation of Contractual Agreement no. 1/85/2019 DESIGN AND EXECUTION OF CONSTRUCTION AND INSTALLATION WORKS FOR 9 OBJECTS Beneficiary: Brasov County Council</p>	<p align="center">Contract principal</p>	<p>Signing the contract – Signing the reception PV upon completion of the work</p>
<p><b>10. 14/2020</b> - Technical consultancy regarding the Contract no. 4451/48/2019 PURCHASE EXECUTION OF WORKS (PT design + DDE + technical assistance design execution) within the project. Modernization, equipment and energy efficiency a of the S+P+M body and extension body (connecting) existing between the old body of the Clinical Hospital of Obstetrics-Gynecology, Dr. A.I Sbarcea" Brasov- Code SMIS 119264; Beneficiary: Brasov County Council</p>	<p align="center">Contract principal</p>	<p>Signing the contract – Signing the reception PV upon completion of the work</p>
<p><b>11. 7390/2023</b> Study regarding the identification of the optimal solution for the installation of the thermal treatment line in Objective 14</p> <p><b>Beneficiary IAR Ghimbav</b></p>	<p align="center">Contract principal</p>	<p>Signing the contract – Signing the reception PV upon completion of the work</p>

**Technical projects for new constructions/structural rehabilitation and modernization derived from research contracts:**

- Building with wooden resistance structure, intended for accommodation - Brasov;
- Extension of the house with a resistance structure in frames, with the incorporation of an existing area - Brasov;
- Residential building attic - Brasov;
- Structural rehabilitation of the building with the destination Surface Treatments - Beneficiary IAR Ghimbav;
- Solutions for the Modernization of the Painting Workshops, Plastic Masses and Preheated Fresh Air Compensation Installations at the Surface Treatment Workshop - Beneficiary: IAR Ghimbav;
- Functional modification of existing space in the Workshop for stripping aircraft structures and simple parts"- Beneficiary: IAR Ghimbav

**Coordinator of masters study program: "Energy modernization in the built environment":**

- Track I: Modernization and rehabilitation of buildings;
- Track II: Energy efficient installation systems;
- Track III: Modernization and rehabilitation of engineering constructions;
- Track IV (scientific research): Buildings with high energetic capacity

**Official referee in the presentation committee of over 40 doctoral theses:**

- „Gh. Asachi” Technical University of Iasi ;
- Technical University of Cluj Napoca ;
- Constructions Technical University of Bucharest ;

„Ovidius” University of Constanta;  
Transilvania University of Brasov ;

### **Conclusion of appraisal reports on a number of over 30 doctoral theses**

#### **Member of certain national and international scientific committees:**

- chairman at the International Scientific Conference : CIBv 2012; CIBv 2013, CIBv 2014, CIBv 2015;CIBv 2016, CIBv 2017, CIBv 2018; CIBv 2019, CIBv 2020, CIBv 2021;CIBv 2022, CIBv 2023.
- scientific referee of certain national scientific actions:
  - Constructions-Installations 2007(CIBv2007), Constructions-Installations 2008 (CIBv2008);
  - Constructions-Installations 2010 (CIBv 2010);
  - Alkali-aggregate reaction factor of the degradation of concrete structures in constructions (25<sup>th</sup> of June 2009)

#### **Chairman and/or member of the Organizing Committee of certain national and international scientific actions:**

- chairman and/or member of the organizing committee of certain international scientific actions: „**International Scientific Conference**” CIBV 2012, CIBv 2013, CIBv 2014; CIBv 2015, CIBv 2016, CIBv 2017, CIBv 2018; CIBv 2019, CIBv 2020, CIBv 2021;CIBv 2022, CIBv 2023;
- chairman of the organizing committee of certain national scientific actions – Scientific Seminary for Constructions-Installations Brasov CIBv 2008: CIBv 2010;
- co-organizer of the „International Expo-Conference of Wooden Special Structure Manufacturers, Wooden houses, Passive houses, Wooden and Steel framings – II<sup>nd</sup> Edition, Brasov ,4<sup>th</sup> of December 2009;
- co-organizer of the,International Expo-Conference – LEMNCONSTRUCT 2011”, II<sup>nd</sup> Edition Brasov, June 2011.

#### **Editor of the volumes of certain international scientific actions:**

- editor of „Proceedings of the International Scientific Conference” CIBv2010; CIBv 2012; CIBv 2013; CIBv 2014; CIBv 2015; CIBv 2016, CIBv 2017, CIBv 2018; CIBv 2019, CIBv 2020, CIBv 2021;CIBv 2022, CIBv 2023.

#### **Member of the Editorial/Scientific Committee of the volumes of scientific publications recognized by BDI (EBSCO):**

- Bulletin of the Transilvania University of Brasov (BUT 2016);
- Bulletin of the Transilvania University of Brasov (BUT 2017);
- Bulletin of the Transilvania University of Brasov (BUT 2018);

#### **Member of the editorial college of certain national magazines:**

- member of the Editorial College of the Civil Engineering Romanian Magazine, published by MATRIXROM Bucharest;

#### **Scientific referee of certain specialized books published in CNCSIS certified publishing houses:**

- Construction materials, author Petru Rapisca, MATRIXROM Bucharest publishing house;
- Determining the quality of construction materials, authors: P.Rapisca, Fl. Tamas, R.Muntean, MATRIXROM Bucharest publishing house;
- The physical-mechanical features of the construction materials, authors: P.Rapisca, Fl. Tamas, R.Muntean, Transilvania University publishing house of Brasov.

#### **Participation in national/international scientific events and the promotion of collaborative relationships with universities/faculties in the country/abroad:**

- Technical University of Construction Bucharest - Faculty of Construction;
- Technical University, Gh. Asachi” Iasi - Faculty of Constructions and Installations;
- Cluj Napoca Technical University – Faculty of Construction;
- Polytechnic University of Timisoara – Faculty of Construction;
- Ovidius Constanta University – Faculty of Construction;
- Oradea University – Faculty of Construction, Cadastre and Architecture;
- University of Applied Sciences Konstanz- Germany;
- Mechanical Engineering School, Shenyang Jianzhu University – China;
- Southwest State University, Kursk – Russia;
- University Novi Sad – Civil Engineering Faculty of Subotica – Serbia

**Corresponding member of the Romanian Academy of Technical Sciences**

**B The management activity/technical and technological training/technical assistance/coordination and execution of construction works was realized through:**

- the realization of over 180 investment objects with various destinations, structural and technological variety, among which:
  - structural and/or thermal rehabilitation of more than 30 investment objects;
  - the technological adaptation of technical design solutions to a number of over 30 investment objects;
    - maintaining permanent contact with the news of the field;
    - the procedure of the work processes and the permanent connection to the specific technical and technological novelties

**Addenda** There are no additional addenda attached to the present CV.

Brasov,  
March 2024

Prof. univ. dr. eng. Ioan TUNS