

## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Zub, Ciprian-Ionuț**  
**Address(es)** 1411, 727305, Horodnic de Sus, România  
**Mobile** +4 0743802482  
**E-mail** zub.ciprian@yahoo.com  
**Nationality** Romanian  
**Date of birth** 22/06/1989  
**Gender** male

### Desired employment / Occupational field

**Doctoral degree in civil engineering**

### Work experience

Dates	08/08/2018 – 31/12/2018
Occupation or position held	Assistant researcher in science of materials
Main activities and responsibilities	Research activities: FEM analyses
Name and address of employer	Politehnica University of Timisoara – Faculty of Constructions Str. Ioan Curea, no. 1, code 300223, Timisoara (Romania)
Type of business or sector	Research
Dates	28/01/2015 – 30/09/2017
Occupation or position held	Assistant researcher
Main activities and responsibilities	Research activities: FEM analyses, experimental tests
Name and address of employer	Politehnica University of Timisoara – Faculty of Constructions Str. Ioan Curea, no. 1, code 300223, Timisoara (Romania)
Type of business or sector	Research
Dates	22/02/2016 – 30/09/2016
Occupation or position held	Teaching assistant
Main activities and responsibilities	Teaching activities: Fundamentals of Mechanics / seminars
Name and address of employer	Politehnica University of Timisoara – Faculty of Constructions Str. Ioan Curea, no. 1, code 300223, Timisoara (Romania)
Type of business or sector	Teaching
Dates	23/05/2014 – 15/10/2014
Occupation or position held	Field civil engineer
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Responsible for onsite organization of the work-flow.</li> <li>- Responsible for fulfilling the technical project.</li> <li>- Responsible of the technical quality of the rising structure.</li> </ul>
Name and address of employer	The Apostolic Church “Sfanta Treime”, Vicov de Sus, Romania

Type of business or sector	Constructions
Dates	2009 – 2013
Occupation or position held	Contractor
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Project based execution of the reinforcement for building projects.</li> <li>- Subcontracting the reinforcement jobs.</li> <li>- Main responsible of the technical quality.</li> <li>- Responsible for hiring, organising and paying the workers.</li> </ul>
Name and address of employer	Self-employment, Romania
Type of business or sector	Constructions

## Education and training

Dates	01/10/2014 – 30/09/2018
Title of qualification awarded	Doctor of Philosophy in the Civil Engineering Domain (pending)
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- Thesis: <i>Buckling restrained braces for seismic protection of building structures.</i></li> <li>- Numerical analyses, experimental tests and fundamental research regarding evaluating the behaviour of buckling restrained braces – BRB (dissipative steel system);</li> <li>- Numerical analysis for evaluating the global structural response of structures provided with BRBs.</li> </ul>
Name and type of organisation providing education and training	Politehnica University of Timisoara – Faculty of Constructions Str. Ioan Curea, no. 1, code 300223, Timisoara (Romania)
Level in national or international classification	ISCED 6
Dates	01/10/2012 - 18/07/2014; 01/10/2008 - 18/07/2012
Title of qualification awarded	Master of Science
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- Advanced structural dynamics analysis and seismic engineering; optimizations in constructions;</li> <li>- Structural design of tall steel and concrete structures; structural design of composite steel-concrete structures; structural design of modern wood structures; design of composite elements (FRP);</li> <li>- Advance design of foundations; design of structures and elements using FEM method and commercial programs;</li> <li>- Nonlinear design of structures; design of plates and plates on elastic medium; design of structures for fire;</li> <li>- Advanced programming for design and research in constructions (Fortran);</li> </ul>
Name and type of organisation providing education and training	Technical University “Gheorghe Asachi” of Iasi – Faculty of Civil Engineering and Building Services Bd. Prof.dr.doc. Dimitrie Mangeron, no. 1, code 700050, Iasi (Romania)
Level in national or international classification	ISCED 5 A
Dates	10/2011-05/2012
Title of qualification awarded	English language courses
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>-2011: Preintermediate module;</li> <li>-2012: Intermediate module.</li> </ul>
Name and type of organisation providing education and training	Euroed, Iași
Level in national or international classification	-N/A
Dates	01/10/2008 - 18/07/2012
Title of qualification awarded	Bachelor of Science
Principal subjects/occupational skills covered	<ul style="list-style-type: none"> <li>- Strength of materials; Theory of elasticity and plasticity;</li> <li>- Static / dynamic / seismic analysis of buildings;</li> <li>- Computer assisted design of structure; Finite Element Method and its applicability in structural engineering;</li> <li>- Steel / Reinforced concrete / Masonry / Wood structures for buildings.</li> <li>- Geotechnics; Design of foundations; Technical drawing; Infographics; English / French Language.</li> </ul>

Name and type of organisation providing education and training: Technical University "Gheorghe Asachi" of Iasi – Faculty of Civil Engineering and Building Services  
 Bd. Prof.dr.doc. Dimitrie Mangeron, no. 1, code 700050, Iasi (Romania)

Level in national or international classification: ISCED 5 B

Dates: 13/09/2004 - 11/07/2008

Title of qualification awarded: Baccalaureate / Social Sciences

Principal subjects/occupational skills covered: - History, Sociology, Philosophy, Logics;  
 - Mathematics, Informatics, Physics; Chemistry, Biology;  
 - Romanian / English / French language.

Name and type of organisation providing education and training: National Collegium „Eudoxiu Hurmuzachi”  
 Calea Bucovinei, nr.5, Rădăuți, jud. Suceava, Romania

Level in national or international classification: ISCED 3

### Personal skills and competences

Mother tongue(s): **Romanian**

Other language(s)

Self-assessment  
 European level (\*)

#### Understanding

#### Speaking

#### Writing

Listening                      Reading                      Spoken interaction                      Spoken production

	Listening		Reading		Spoken interaction		Spoken production		Writing	
<b>English</b>	C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced	C1	Advanced
<b>French</b>	A2	Beginner	B2	Beginner	A2	Beginner	A2	Beginner	A2	Beginner

(\*) Common European Framework of Reference for Languages

Social skills and competences: - Rapid integration and efficient collaboration when team work is necessary (Faculty, Construction building site).  
 - Adaptability to multicultural environments that request the knowledge of English language (EUROED, Computer System Institute);

Organisational skills and competences: - Good analysis and synthesis capacity in taking decisions (Faculty, Construction building site);  
 - Efficient organization and good capacity skills to establish the priorities (Faculty, Construction building site);

Technical skills and competences: - Design and detail of steel, concrete, masonry and wood structures (Faculty, Industry);  
 - Competence of executing the reinforcements for concrete civil structures (Construction building site);

Computer skills and competences: - Advanced knowledge of FEM software: *Abaqus, Ansys, OpenSees, Graitec Advance Design, CSI ETABS, CSI SAP2000, Axis VM*;  
 - Efficient use of CAD and detailing software: *Autodesk AutoCAD, Graitec Advance Concrete, Graitec Advance Steel*;  
 - Comprehensive knowledge of Microsoft Office™ tools;  
 - Basic knowledge of MATLAB, FORTRAN, TCL.

Artistic skills and competences: - Passionate about the architecture of tall and irregular structures.  
 - Dancer of ballroom and latin dances.

Other skills and competences: - Dynamic and active personality, passionate about sport;  
 - Native curiosity related to the things around and the way they work with respect to the science behind them;

Driving licence: Category B (car).

## Additional information

- Research papers/conferences based on FEM analyses performed within the framework of *IMSER* and *EQUALJOINTS* research projects;
- Participation in ERASMUS+ program. Receiving organisation: Nagoya Institute of Technology, Japan (15/01/2018 – 17/04/2018);
- Participation in three consecutive years in Work & Travel USA Programs (2009, 2010, 2011);
- Participation in H2B USA Program (2013);
- Participation in the internship organised by AIESEC, program: "School of Engineering" (2014).

## Annexes

### Publications:

#### - ISI papers:

1. Zub, C.I., Stratan, A., Dogariu, A. and Dubina, D. (2018), "Development of a finite element model for a buckling restrained brace", Proceedings of the Romanian Academy Series A.
2. Zub, C.I., Stratan, A. and Dubina, D. (sent 05-06-2018), "Modelling the cyclic response of structural steel for FEM analyses", Proc. 1st Int. Conf. Computational Methods and Applications in Engineering, Timisoara, May 2018 (accepted for publication).
3. Stratan, A., Zub, C.I. and Dubina, D. (sent 24-08-2018). "Prequalification of a set of buckling restrained braces: Part I – experimental tests". Journal of Steel and Composite Structures,
4. Zub, C.I., Stratan, A. and Dubina, D. (sent 18-09-2018). "Prequalification of a set of buckling restrained braces: Part II – numerical simulations". Journal of Steel and Composite Structures,

#### - BDI papers/conferences:

1. Stratan, A., Zub, C.I. and Dubina, D. (2018), "Experimental Tests for Pre-Qualification of a Set of Buckling-Restrained Braces", Key Engineering Materials, 763, 450–457. (google scholar).
2. Florența, I., Pruteanu, M., Zub, C.I. (2016). "FEM Analysis of a Platform Framing Timber Structure". Intersections, vol. 13, no. 2, ISSN 1582-3024. (google scholar).
3. Zub, C.I., Dogariu, A., Stratan, A. and Dubina, D. (2017), "Pre-test numerical simulations for development of prequalified buckling restrained braces", DOI: 10.1002/cepa.395, CE/Papers, Ernst& Sohn/Wiley, Vol.1, Issue 2- 3, 3404-3413. (google scholar)
4. Both, I., Zub, C., Stratan, A. and Dubina, D. (2017), "Cyclic behaviour of European carbon steels", DOI: 10.1002/cepa.370, CE/Papers, Ernst& Sohn/Wiley, Vol.1, Issue 2-3, 3173-3180. (google scholar)
5. Zub, C.I., Stratan, A., Dogariu, A., Vulcu, C. and Dubina, D. (2018), "Development of two types of buckling restrained braces using finite element modelling", In Seismic Hazard and Risk Assessment, 373-387, Springer, Cham, Switzerland (google scholar).

#### - National Conferences:

1. Stratan, A., Voica, F., Marcu, D., Zub, C. and D. Dubina (2015), "Design of steel structures with buckling restrained braces according to P100-1/2013" (in Romanian), Proc. 14-th National Conference on Steel Structures, Cluj-Napoca, Romania.

#### - Books (co-author):

1. Stratan, A., Zub, C.I., Dogariu, A., Dinu, F., Dubina, D., Voica, T.F., Ganea, M.A., Marcu, A.D., Coman, M., Badea, I.C. and Todea, A. (2017), "Recomandări de proiectare pentru cadre cu cantravântuiri cu flambaj împiedicat", Editor Stratan A., Orizonturi Universitare, Timisoara, Romania, ISBN: 978-973-638-626-8.
2. Stratan, A., Dogariu, A., Zub, C., Dinu, F., Dubina, D. (2015). "Consolidarea cadrelor din beton armat folosind contravântuiri cu flambaj împiedicat: generalități și studiu de caz". Lucrările seminarului "Tehnici de consolidare anti-seismică a clădirilor existente bazate pe utilizarea oțelului", Editor Dan Dubina, Editura Orizonturi Universitare, Timișoara, 23 Nov., ISBN: 978-973-638-608-4, pp. 100-137.

#### - Research reports:

1. IMSER grant: <http://www.ct.upt.ro/centre/cemsig/imser.htm>;
2. EQUALJOINTS grant: D'Aniello, M., Costanzo, S., Tartaglia, R., Stratan, A., Dubina, D., Vulcu, C., Maris, C., Zub, C., Da Silva, L., Rebelo, C., Augusto, H., Shahbazian, A., Gentili, F., Jaspert, J.P., Demonceau, J.F., Van Hoang, L., Elghazouli, A., Tsitos, A., Vassart, O., Nunez, E.M., Dehan, V. and Hamreza, C. (2016), "European pre-QUALified steel JOINTS (EQUALJOINTS)", Editor Raffaele Landolfo, Final report RFSR-CT-2013-00021, ISBN 978-92-79-76994-8, University of Naples Federico II, Italy.