

## Academic Curriculum Vitae



### Personal Information

Name and surname	<b>Edin Muratović</b>	
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Fax		
E-mail/Web	edin.muratovic@untz.ba	
Citizenship	BiH	
Date of Birth	22.02.1997. godine	
Gender	Male	

### Present workplace position/occupation

**Assistant, University of Tuzla – Faculty of Mining, Geology and Civil Engineering**

### Work Experience

Dates	January 2021
Position/ occupation	Bachelor – Civil Engineer
Main Responsibilities and Duties	Preparation of project documentation
Employer	Tehnoplan doo Kalesija
Type of business activity of the employer	Design in construction
Dates	February 2023
Position/ occupation	Assistant
Main Responsibilities and Duties	Teaching assistant
Employer	University of Tuzla – Faculty of Mining, Geology and Civil Engineering
Type of business activity of the employer	Education and Scientific Research

## Education and Training

Dates	2004-2012
Qualification Obtained	Primary Education
Field of science and profession, acquired titles and skills	Primary Education
Name and type of organization	JU OŠ „Sapna“, Sapna
Dates	September 2012. - May 2016.
Qualification Obtained	Secondary Education – High School Diploma
Field of science and profession, acquired titles and skills	Civil Engineering Technician
Name and type of organization	High school “JUMS Građevinsko-geodetska škola” Tuzla
Dates	October 2016. - October 2020.
Qualification Obtained	Bachelor's Degree in Civil Engineering (Diploma number 8/286-III/20, November 18.)
Field of science and profession, acquired titles and skills	Bachelor of Civil Engineering
Name and type of organization	Faculty of Mining, Geology and Civil Engineering, University of Tuzla

## Scientific Papers within Formal Education

Name of work/paper	„Numerical analysis of rod according to the large displacement theory“, Demirović B., Osmić N., <b>Muratović E.</b>
Published In	Proceedings of the 8th International Conference “Contemporary Achievements in Civil Engineering”, 2021, pp. 285–295
Year and Place	April 2021, Subotica
Summary	The paper presents a procedure for numerical modelling of the geometric nonlinearity of a rod. The calculation of cross-sectional forces, displacements and rotations of nodes was done by iterative methods on a deformed system. By the described procedure, the equilibrium state is established in the finite position of the rod. In the process of deformation, there is an increase in cross-sectional forces and deformation of the rod. The presented calculation methods are used to model geometric nonlinearity with constant and variable stiffness of the cross section of the rod. The calculations were done numerically, and the results were controlled using the SCIA software package. Through numerical examples, the calculation procedure was presented and the analysis of the results was performed.
Comment	
Name of work/paper	„Analysis of material nonlinearity of thin plates according to finite difference method“, Demirović B., Požegić Z., <b>Muratović E.</b>
Published In	THE 9th INTERNATIONAL CONFERENCE "CIVIL ENGINEERING – SCIENCE AND PRACTICE", GNP-2024, str. 195-207
Year and Place	March 2024, Kolašin
Summary	The paper presents an analysis of the material nonlinearity of thin plates loaded vertically to the middle plane of the plate. The problem related to plate bending was solved numerically, by applying the finite difference method. The displacements of the plate at the discretization points are determined using a system of algebraic equations by iterative procedures, and by applying simple iteration methods. The bearing capacity of the cross-section of the plate in the elasto-

plastic region of the material behavior is carried out using the conditions of force equilibrium and cross-section stress. A described procedure models the material nonlinearity of the plates by changing the rigidity of the plate through iterations, thereby establishing a balance between external and internal forces. Using the numerical example has been presented the calculation procedure, and also an analysis has been carried out and comparison of the results obtained in the SCIA Engineer Software Package.

## **Selected Publications and Presentations**

Name  
Authors  
Publisher, year, and place  
Summary  
Comment

## **Selected Projects and Presentations**

Name  
Authors  
Publisher, year, and place  
Summary  
Comment

## **Awards and Recognition**

Name  
Institution  
Reason (cause)  
Summary  
Comment

## **Membership in Professional Associations**

Name of the association  
Brief description of the association  
Address of the association / web reference  
Position in the association  
Comment

## Participation in the education process

As Assistant / Senior Assistant:

Strength of Materials with Theory of Elasticity I, Concrete Structures I, Concrete Structures II, Mechanics I – Statics, Mechanics II – Kinematics and Dynamics, Structural Statics I, Structural Statics II, Technical Drawing CAD Elements of Building Construction, Bridges I, Seismic Design, Timber Structures I, Steel Structures I, Structural Testing, Composite Structures, Construction Techniques

University of Tuzla, Faculty of Mining, Geology and Civil Engineering

First Cycle of Higher Education

As Assistant Professor

As Associate Professor

As Full Professor

Other

## Supervision of Master's and Doctoral Theses

Master's Theses

Doctoral Theses

## Research Projects and Studies

Completed Projects

Ongoing Projects

Planned Projects (expected or in preparation)

## Personal Skills and Competences

Native language

Bosnian

Other Languages

English

Understanding		Speaking		Writing
Listening	Reading	Spoken Interaction	Speaking	
A2	A2	A2	A2	A2

## Scientific, Professional and Social Competences

Leading skills in researching and education

Skills in scientific-researching participation

Scientific-researching profession and training

Professional development in the field of structural theory

Planned academic advancement	Master's Degree in Civil Engineering – Structural Engineer
Social Skills and Competences	Responsible and reliable
Organizational Skills and Competences	Team-oriented
Technical Skills and Competences	Use of advanced BIM software
Computer Skills and Competences	Proficient in: Microsoft Office, AutoCAD, SAP 2000, SCIA Engineer, IDEA StatiCa, Frilo, Allplan, Advance Steel
Artistic Skills and Competences	
Other Skills and Competences	

**Other Information**      Driving License: C1

### **Attachments**

I, the undersigned, hereby confirm that to the best of my knowledge and on my behalf, the above information is accurate in describing me, my qualifications, and my professional experience to date.

Tuzla, 28 May 2025

BA ing. građ. Edin Muratović