

# Curriculum Vitae

## MÁTÉ SZEDLÁK

### Personal

<b>First name / Surname</b>	Máté Szedlák
<b>Address</b>	5. Fszrt/2 Bihari Street, Miskolc H-3530, Hungary
<b>Telephone</b>	+36203231986
<b>E-mail address</b>	szedlakmate@gmail.com
<b>Nationality</b>	Hungarian
<b>Date and Place of Birth</b>	23 September 1991, Miskolc, Hungary
<b>Gender</b>	Male
<b>Driving License</b>	B Category



### Education

#### Primary Studies

<b>Bachelor of Civil Engineering, Specializing in Bridges and Structural Engineering, Geotechnics, 2010 – 2015</b>	Budapest University of Technology and Economics – Faculty of Civil Engineering Budapest, Hungary
<b>Master of Computational Structural Engineering 2015 – present</b>	Budapest University of Technology and Economics – Faculty of Civil Engineering Budapest, Hungary
<b>Erasmus+ semester in Computational Structural Engineering 10.2016 – 01.2017.</b>	Universitat Politècnica de Catalunya – Faculty of Civil Engineering – Barcelona, Catalunya, Spain

#### Secondary Studies

<b>Bachelor of Management and Business Administration 2011 – present</b>	Budapest University of Technology and Economics – Faculty of Economic and Social Sciences – Budapest, Hungary
--	---

### Current Professional Goal

My experience in civil engineering projects exposed a deep interest in modeling and answering questions using tools such as VBA, ANSYS scripts, C#, MATLAB, and MathCAD. Changing career fields is not easy, but I have now enthusiastically embraced this interest with a new direction towards coding. Utilizing my strong mathematical and analytical foundations in engineering, my goal is to find suitable programming fields where I can combine those skills with the creativity and flexibility offered by coding to solve an expanded variety of problems.

## Professional Experience and Awards

### Co-writer of the following papers:

- **“The meeting of theory and practice in geoinformatics III”** (HU). [Nikol Krausz, Máté Szedlák, Dr. Árpád Barsi – 2012]
  - design of the experiments
  - evaluation of the measurements (**VBA**)
- **„In plane buckling of thin-walled structures with slotted web”** [Dr. Sándor Ádány, Dávid Visy, Máté Szedlák – 2015]
  - development of **ANSYS scripts**
- **“Understanding the global buckling behavior of thin-walled members with slotted web”** [Dr. Sándor Ádány, Dávid Visy, Borbála Geleji, Máté Szedlák – 2014]
  - development of **ANSYS scripts**
- **„Experimental investigation on double-C compressed members”** [Dr. Attila László Joó, Dr. Sándor Ádány, Máté Szedlák – 2015]
  - execution of the experiments
  - evaluation of the measurements (**VBA**)
  - comparison with standards (**MathCAD**)

**Participant in the Google SteamUP experimental startup project.** Google Hungary started an experiment to create a brand-new startup. For 6 months we participated in intensive coaching while in the following 6 months we started to work on our project. The project did not end with a working product but the 12 months of experience in a startup environment had a big impact on my professional skills, like:

- Project planning
- Improving EQ skills
- Presentation (pitching)
- Teamwork

**Participant in a research program** related to the article „Experimental investigation on double-C compressed members” in the semester of 2013/14/II.

### II. prize at Student’s Scientific Conference – BME

“Experiments and numerical models for eigenfrequency identification of fluids” – Kata Ficker, Máté Szedlák – 2016

### II. prize at Student’s Scientific Conference – BME

“The effect of holes in the global buckling of thin-walled column members: numerical studies with using beam and shell models” – Borbála Geleji, Máté Szedlák – 2013

**III. prize at the National Student’s Scientific Conference** in 2015.

### III. prize at Student’s Scientific Conference – BME

“Experiment based calculation method for specially designed and individual cross-sectional thin-walled steel columns” – Máté Szedlák – 2014

## Computer Skills

**MS Office**



**AutoCAD**



**MATLAB**



**MathCAD**



**Finite Element analysis**



### Programming in:

**HTML & CSS 3**



**JavaScript**



**C#**



**Python**



**SQL**



**VBA**



## Language Proficiency

<b>Hungarian</b>	Mother tongue
<b>English</b>	Advanced Level Language Exam (C1), 2010 TOEFL iBT 99/120, 2014
<b>Italian</b>	Intermediate (Level B1)
<b>Spanish</b>	Beginner (Level A1)
<b>German</b>	Beginner (Level A1)

## Extracurricular Activities

**Board Member of the Dürer Mathematics, Physics and Chemistry Competition** since 2013.  
Founder of the competition in 2007. ([www.durerinfo.hu](http://www.durerinfo.hu)). Former positions and tasks:

- IT administration
- Joomla management
- Leisure Time Organizer (for 160 people)
- Advertisement
- Local organizer

## Personal skills

I consider myself as a:

- **team-oriented**
- **curious**
- **creative**
- **proactive**
- **socially responsible**

person with **engineering** and **economical** knowledge. I love to learn and I love professions related puzzles. I can easily find myself in a state of flow where I deeply dedicate myself to solving problems.

## External links

<b>LinkedIn</b>	<a href="http://www.linkedin.com/in/szedlakmate">www.linkedin.com/in/szedlakmate</a>
<b>GitHub</b>	<a href="http://www.github.com/szedlakmate">www.github.com/szedlakmate</a>
<b>Portfolio</b>	<a href="http://www.github.com/szedlakmate/portfolio">www.github.com/szedlakmate/portfolio</a>

## Reference

<b>Dr. Mátyás Hunyadi, PhD Structural Engineer</b>	Assistant professor at BME, consultant of my BSc and MSc final theses ( <a href="mailto:hunyadi.matyas@epito.bme.hu">hunyadi.matyas@epito.bme.hu</a> )
<b>Dr. Dániel Merczel, PhD Structural Engineer</b>	Supervising engineer at part-time projects ( <a href="mailto:dmerczel@gmail.com">dmerczel@gmail.com</a> )

Budapest, 14<sup>th</sup> September 2017