Curriculum Vitae

MÁTÉ SZEDLÁK

Personal

First name / Surname	Máté Szedlák
Address	****************
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Telephone	+36203231986
E-mail address	szedlakmate@gmail.com
Nationality	Hungarian
Date and Place of Birth	********* 1991, Miskolc, Hungary
Gender	Male
Driving License	B Category

Education

Primary Studies

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

Secondary Studies

Bachelor of Management and Business Administration 2011 – present	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 starting from 08/2014 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

		Programming in:	
MS Office	★ ★ ★ ★ ★	**HTML & CSS 3**	★ ★ ☆ ☆ ☆
AutoCAD	★ ★ ★ ★ ☆	**JavaScript**	★ ★ ★ ☆ ☆
MATLAB	★ ★ ★ ☆ ☆	**C#**	★ ★ ☆ ☆ ☆
MathCAD	★ ★ ★ ★ ☆	**Python**	★ ★ ★ ☆ ☆
Finite Element alanysis	★ ★ ★ ★ ☆	**SQL**	★ ★ ★ ☆ ☆
		VBA	★ ★ ☆ ☆ ☆

Language Proficiency

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

LinkedIn	www.linkedin.com/in/szedlakmate
GitHub	www.github.com/szedlakmate
Portfolio	www.github.com/szedlakmate/portfolio

Reference

Dr. Mátyás Hunyadi, PhD **Structural Engineer**	Assistant professor at BME, consultant of my BSc and MSc final theses (hunyadi.matyas@epito.bme.hu)
Dr. Dániel Merczel, PhD **Structural Engineer**	Supervising engineer at part-time projects (dmerczel@gmail.com)

Budapest, 14th September 2017