

## Curriculum vitae

Assoc. prof., M. arch. Štefan TKÁČ, PhD., EUR ING., ING PAED IGIP. (史蒂芬)

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### Education

#### ▪ Dual Ph.D. (Dr.)

Faculty of Civil Engineering, Technical University of Kosice (Slovak Republic)

College of Architecture and Design, Chung Hua University (Taiwan R.O.C.)

**Program:** Theory of Designing Buildings and Environment/Civil Engineering. **GPA** of 4.00

**Thesis:** The Importance of the water element in small urban structures as a source of energy independence

**Graduation Date:** 11. 8. 2015

#### **Awards and honors:**

- 9. 2015 Presentation of MUMT - Micro Urban Multipurpose Turbine design at the **EXPO 2015** in Milan
- 12. 2014 Student personality of the academic year 2013/2014 (in category: Civil Engineering and Architecture)
- 12. 2014 Special **BMW Award** for Sustainability and Innovation
- 4. 2015 Presentation of the decentralized energy model, the EEPGC - Efficiency Electric Power Grid Circles at the **XI. SUI** - International Urban Seminar, Mexico City
- 2. 2015 National Scholarship Program of the Slovak Republic
- 10. 2014 Golden medal at **Ján Bahýľ Award** for the utility model SK 6418
- 7. 2014 **Slovak Chamber of Architects award** at International Forum of Young Architects
- 1. 2013 Visegrad-Taiwan Ph.D. Scholarship
- 9. 2012 Taipei Int'l Invention Show and Technomart – **INST, Golden medal** for the MUMT (Micro Urban Multipurpose Turbine) design
- 2011-2012 Creator and negotiator for first Europe – Asia dual diploma Ph.D. program

#### ▪ Master (M. arch.)

College of Architecture and Planning, Chung Hua University (Taiwan R.O.C.)

**Program:** Architecture and Urban Planning. **GPA** of 4.00

**Thesis:** 張力結構與木結構之組合應用於高科技建築 / The combination of tensile and wooden structures

**Graduation Date:** 6. 2011

#### **Awards and honors:**

- 2011 Won the competition for building permission for the Affiliated Elementary School of The National University of Education in Hsinchu – Hung Ai Building reconstruction and campus site planning.
- 2011 The bilateral agreement between the Civil Engineering Faculty and the Faculty of Architecture and Urban Planning (faculty level), later TUKE to CHU agreement (university level)

2010      Conceptual design for Taiwan Tower in Taichung City  
2009      Creator and negotiator of the first Slovakia-Taiwan R.O.C. MoU on master's and bachelor's degrees in Architecture and Civil Engineering.

## ▪ Bachelor

**Faculty of Arts, Department of Architecture and Urban Planning, Technical University of Kosice (Slovak Republic)**

**Program:** Architecture and Urban Planning. **GPA** of 3.30

**Graduation Date:** 9. 6. 2009

## ▪ Highschool

**Bilingual Gymnasium of John Amos Comenius (Slovak Republic)**

**GPA** of 3.70

**Graduation Date:** 26.5.2005

**Awards and honors:**

- 5.2004      **1<sup>st</sup> place** in the **National Competition for Young Scientists** (X - 600 own design of aircraft)
- 3.2003      One of the 30 chosen graphics for **Slovak euro coin design** in the Euro coin competition.
- 1.2003      Winner of the regional High school research activity - SOČ (X - **3000** own design of passenger plane)

## Work Experience

### Professional Practice

**2005-1. 2007** (Kosice, Slovak Republic, EU)

**ARCH. AND URBAN STUDIO - FIRM OF ING. ARCH. VIKTOR MALINOVSKÝ, Ph.D.**

**Position:** Leading conceptual designer and urban planner

**Scope of the Work:** Urban Master Plans Proposals for EU Funds concerning Eastern Slovakia Villages – Presov County.

**2010-12. 2012** (Hsinchu, Taiwan R.O.C.)

**ARCHITECTURAL DESIGN STUDIO OF PROF. RON CHEN,**

**Position:** Architectural and urban planning designer

**Scope of the Work:** Conceptual design

**2009-12. 2014** (Hsinchu, Taiwan R.O.C.)

**ARCHITECTURAL DESIGN STUDIO OF PROF. CHIE CHEN LIN**

**Position:** Architectural and urban planning designer

**Scope of the Work:** Conceptual designer for facades, visualizations, and design consultancy (building standards).

**Since 3. 2015** (Hsinchu, Taiwan R.O.C.)

**ITRI - INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE**

**Position:** External micro-hydro energy consultancy

**Scope of the Work:** MUMT program, Hydropower, and WWTP project - Futien, Taichung city.

**Since 2. 2016 – 2.2020** (Kosice, Slovak Republic & Taoyuan, Taiwan R.O.C.))

**STUDIO Ltd.** [www.studio.online](http://www.studio.online)

**Position:** CEO for Asia-Pacific

**Scope of the Work:** Conceptual Designer, Urban planner, Architect, R&D, and International Relations

### Academic Practice

**9. 2015 - 9. 2016** (Kosice, Slovak Republic, EU)

**FACULTY OF CIVIL ENGINEERING, TECHNICAL UNIVERSITY OF KOSICE**

**Position:** Researcher and lecturer

**Scope of the Work:** Responsible for graduate/undergraduate/Ph.D. degree level, MUMT & EEPGC research. International relations deputy for Taiwan area. Creator of the IBC - International Branch Campus idea (TUKE - ITRI)

**5.- 8. 2016** (Tainan, Taiwan R.O.C.)

**RESEARCH CENTRE FOR ENERGY TECHNOLOGY AND STRATEGY AT THE NATIONAL CHENG KUNG UNIVERSITY**

**Position:** Post-doctor-researcher

**Scope of the Work:** Energy and Urban planning concept for Tainan Green Technology Park, an energy-positive city (Salun project).

Trilingual research concerning the first hydro energy mapping of Taiwan. (**Taiwanese Hydropower Plants** ISBN: 978-986-84012-8-0).

**9. 2016-6. 2020** (Kosice, Slovak Republic, EU)

**FACULTY OF CIVIL ENGINEERING, TECHNICAL UNIVERSITY OF KOSICE**

**Position:** Assistant professor

**Scope of the Work:** Project leader for **Erasmus+KA107** exchange program (2017/2018) between Chung Hua University, ITRI, and the Technical University of Košice, Faculty of Civil Engineering.

Visegrad - Taiwan Post Doctor Scholarship

ERASMUS+ coordinator for Taiwan

ERASMUS+ Teaching exchange mobility - Taiwan

Lecturer for graduate/undergraduate/Ph.D. degree level

MUMT & EEPGC research.

TUKE International relations deputy for Taiwan and the Far East area.

The IBC - International Branch Campus (TUKE - ITRI) negotiator

Technical Editor of the SSP Journal <http://www.svf.tuke.sk/ssp/>

Invited presenter at the **EXPO 2017** in Astana, Slovak Pavilion - MUMT design in exposition.

2<sup>nd</sup> place. 29.9.2017 - **Falling Lab Walls** - Bratislava (breaking the wall of **hydro turbine rotor stabilization**).

2018 – **Platinum medal** for TUKE, CE faculty development.

Since January 2019, TUKE International relations deputy for the Far East and Southeast Asia.

Since November 2019, TUKE, Faculty of Civil Engineering representative for the International Branch Campus in Taiwan, Hsinchu – Chung Hua University Campus.

**Fulbright Scholar 2020/2021** to the University of Arizona

**Since 8. 2018** (Phnom Penh, Kingdom of Cambodia)

**AMERICAN UNIVERSITY OF PHNOM PENH - AUPP**

**Position:** Associate professor

**Scope of the Work:** The chair of the Architecture and Civil Engineering programs (2019-2021).

Global lecturer for Civil Engineering classes at the University of Arizona Micro-campus in Phnom Penh – AUPP.

The chair of the Architecture (2021-ongoing)

International Correspondent for the Asian Network of Industrial Heritage

Director of Slovak Taiwan hydropower research laboratory

**1-6. 2022** (Tucson, AZ, United States of America)

**COLLEGE OF ENGINEERING, CAEM, UNIVERSITY OF ARIZONA**

**Position:** Fulbright research scholar

**Scope of the Work:** EEPGC – Efficiency Electric Power Grid Circles and its application within American Micro Urbanism.

**11. 2020 - 9.2023** (Kosice, Slovak Republic, EU)

**TECHNICAL UNIVERSITY OF KOSICE, RECTOR'S OFFICE**

**Position:** International Relations advisor to the rector's Office

**Scope of the Work:** Coordinator of the TUKE International Branch Campus in Taiwan

Coordinator for TUKE academic international relationships with Asia-Pacific

Since 3. 2023 (Subang Jaya, Selangor, Federal Territory of Malaysia)

**SCHOOL OF ARCH, BUILDG. & DESIGN, FACULTY OF INNOVATION & TECHNOLOGY,  
TAYLOR'S UNIVERSITY**

**Position:** Associate professor

**Scope of the Work:** Lecturing and research tasks

### **Language & Skills**

**Language:** Slovak / Mother tongue, Czech / affiliated Mother tongue, English / Fluent (TOEFL iBT), German / Passive, Italian / Passive, Mandarin Chinese / Intermediate (HSK III), Taiwanese Hokkien / Very beginner, Khmer / beginner, Russian/ beginner, Japanese/ beginner.

**Technical Skills:** Computer graphic software and CAD: Microstation V8, AutoCAD 2020, Sketchup Pro, Corel Draw, Adobe Suit Collection, ArchiCAD. Rendering software: V Ray for Sketch-up, Artlantis, and Twinmotion. Learning: BIM design and parametric design via Autodesk Revit/Dynamo. Academic learning software: D2L, Canvas, and Moodle

### **Other qualifications and licenses**

27.1.2023 - **ING PAED IGIP** (Registration Number **SK-197**) - International Engineering Educator by the International Society for Engineering Pedagogy, 14.5.2020 - Nostrification of Associate professorship to docent(doc.), **Certificate of Management of the Quality of Teaching at Universities** (29. September 2016), **EUR ING** license (Registration Number **33165**) from the European Federation of National Engineering Associations (4. January 2016), Member of **RED-URBANINT** - International Network of Experts in Urbanism (URBANINT) of the Metropolitan Autonomous University Campus Azcapotzalco - UAM - Mexico City, Art, Architecture, **Water footprint design certificate**, Design, and Drawing teacher license (**Pedagogical Minimum**), 1-year practical experience, English teacher - 1-year experience/Taiwan, University Teacher 11-years' experience. **Swimming coach of 3<sup>rd</sup> and 2<sup>nd</sup> class**, and **lifeguard** with **qualification level bronze**, 6 years experience (2 saves), and EU driving license A2 <35kW, B.

### **Other interests**

Urban Design, Architecture, Drawing, Painting, Aircraft and Transportation Design, Sci-fi, Aeronautics, Biomorphic, Biophilic, and Biomimicry structures. Asian architecture (Colonial Architecture in Asia), International Academic Cooperation and Relationships, Swimming, and Volleyball.

**Personal webpage with portfolio:** <http://ecampus.wixsite.com/mysite>

**Research gate:** [https://www.researchgate.net/profile/Stefan\\_Tkac3](https://www.researchgate.net/profile/Stefan_Tkac3)

**Studio web page:** <https://www.studio.online/>

**Research lab web page:** <https://www.facebook.com/hydropowerslovaktaiwan>