

Hussein Al-kroom



Civil Engineer

Personal Information

Born: 14 / 11 / 1988 in Jordan

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Education

2015 – 2018 PhD in Structural Engineering, Technische Universität Berlin - Germany

2012 – 2014 M.Sc in Advanced Computational and Civil Engineering Structural Studies (ACCESS) , Technische Universität Dresden - Germany

2006 - 2010 B.sc of civil Eng , Mutah university - Jordan

Language

Arabic Native language

English Fluent, in speaking and in writing (C1)

German Very Good (B1)

Work Experience

- 2018 – now **The University of Jordan, Amman - Jordan**
Assistant professor
- 2017 – 2018 **Technical University of Berlin, Berlin - Germany**
Research assistant
- 2014 – 2017 **Faisal & Mujahed Al-Groom for constructions, Al-karak - Jordan**
Consulting and Account the quantities of the projects
- 2011 – 2012 **Arabian International Company, Amman - Jordan**
Account the quantities and analyze of the projects
- 2010 – 2011 **Tareq Engineering Office, Al-karak - Jordan**
Designing and supervision of the constructions

Technical Proficiency (Programs)

- TEKLA
- ETABS
- RSTAB 8
- Google Sketch up
- C#.net
- Fortran
- python
- ANSYS

Training Certificates

- Course in project management software PRIMAVERA
- Course in the design of buildings by software PROKON
- Course in two-dimensional AutoCAD software
- Course in the calculation of quantities (Quantity Surveying)
- Course in the Design of Concrete Structures
- ICDL

Scientific Work

- Dissertation : Simulation and explanation of the loadbearing behavior of high capacity saw tooth connections, TU Berlin
- Master Thesis : Innovation shuttering system, TU Dresden
- Project work : Design a closed roof of football stadium, TU Dresden
- Bachelor Thesis : studying the designing and the aims of the pedestrians overpasses in Amman- Jordan

Interests

Reading, Traveling, Meeting people Up, Technology, Political issues

Publications

Reimer, A., Schmid, V., and Al-kroom, H. 2017. The Saw-Tooth Connector. An Effective Joint-Element for Slender Concrete Decks. Footbridge 2017 Berlin - Tell A Story: Conference Proceedings 6-8.9.2017 TU-Berlin. Chair of Conceptual and Structural Design, Technische Universität Berlin. DOI:10.24904/footbridge2017.09618.

Al-kroom, H., Schmid, V. and Reimer, A. 2017. 3D Non-Linear FE Model for a high Capacity Saw-tooth Connector. International Association for Bridge and Structural Engineering 2017 – IABSE Symposium Report, Vancouver, 2659–2666.

Reimer, A., Schmid, V. and Al-kroom, H. 2017. Experimental Research on Concentrated Load Transfer between Steel and Slender Reinforced Concrete Slabs by High Performance Saw-Tooth Connectors. IABSE Symposium Report -Vancouver, 109-51, 1090–1097.

Al-kroom, H., Schmid, V. and Reimer, A. 2018. 3D Non-Linear Model Describing the Behaviour of Peripheral High Capacity Saw-Tooth Connectors Subjected to Compressive Load. International Association for Bridge and Structural Engineering 2018 – IABSE conference Report Kuala Lumpur, 1013-1020.

Federowicz K, Figueiredo V, Al-kroom Hussein, Abdel-Gawwad H, Abd Elrahman M, Sikora P. The Effects of Temperature Curing on the Strength Development, Transport Properties, and Freeze-Thaw Resistance of Blast Furnace Slag Cement Mortars Modified with Nanosilica. *Materials* 2020;13:5800.

Al-kroom H, Reimer A, Alghrir Y, Thneibat M, Schmid V. Experimental and numerical investigation on the saw-tooth connector subjected to compressive load. *Journal of Constructional Steel Research*. 2021 Mar 1;178:106485.

Al-kroom H, Thneibat M, Alghrir Y, Schmid V. An experimental investigation of new bent V-shaped shear connector. *Latin American Journal of Solids and Structures*: Vol. 18 No. 5 (2021).

Thneibat M, Thneibat M, Al-Shattarat B, Al-kroom H. Development of an agent-based model to understand the diffusion of value management in construction projects as a sustainability tool. Alexandria Engineering Journal. 2021

References

Manfred Curbach

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