

CURRICULUM VITAE

Hatem Hashem Rafa Almasaeid

Civil Engineering Dept./Faculty of Engineering

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1. Personal Data

Date of Birth: 24.06.1990

Nationality: Jordanian/ American

2. Education

- Ph.D. (Structural Eng.) 2018, University of Mississippi, Ms, USA.
- M.Sc. (Structural Eng.) 2015, Jordan University of Science and Technology, Irbid, Jordan.
- B.Sc. (Civil Eng.) 2013, Jordan University of Science and Technology, Irbid, Jordan.

3. M.Sc. Dissertation

“Repairing of Heat-Damaged RC Beams Using Near Surface Mounted FRP Strips.”, Jordan University of Science and Technology, Irbid, Jordan.

4. Ph.D. Dissertation

“Utilizing of Magnesium Oxysulfate Binders for Additive Construction Applications.”, University of Mississippi, Ms, USA.

5. Employment

Academic Positions

- Assistant Professor, Civil Engineering dept. Al Al-Bayt University, Mafraq, Jordan, 2020 – now.
- Assistant Professor, Civil and Infrastructure Engineering dept. Al-Zaytoonah University of Jordan, Amman, Jordan, 2019 – 2020.
- Part time instructor, Civil Eng. dept./ Jordan University of Science and Technology, Irbid, Jordan, Spring 2019.

6. Research Interests

As an Assistant Professor the researches involve the following primary areas:

- Nano-infrastructure research group member, with multi-disciplinary research areas: Nano composite manufacturing and characterization at different scales, characterizing both natural and polymeric materials, and simulating materials properties at the nanoscale.
- Additive Construction: Utilizing of 3D printers for cementitious binder’s applications including laboratory modified clay extruders.
- Magnesia Based Binders characterization for planetary and extraterrestrial applications
- Artificial Neural Network utilization in material science fields.

- Retrofitting of damaged reinforced concrete elements using the fiber reinforced polymers.

7. Teaching Experience

Undergraduate Courses

- Construction Materials.
- Construction Materials Lab.
- Geotechnical Engineering.
- Geotechnical Engineering Lab.
- Transportation Engineering.
- Structural Analysis I.
- Structural Analysis II.
- Reinforced Concrete I.
- Reinforced Concrete II.
- Senior Design Project I.
- Senior Design Project II.

8. Publications

- Rami Haddad, Hatem Almasaeid. "Recovering shear capacity of heat-damaged beams using NSM-CFRP strips" *Construction and Building Materials* Vol. 105. 2016, pp. 448-458.
- Al-Masaeid, Hashem R., Tareq M. Magsi, and Hatem H. Almasaeid. "Consistency of interchange outer connection ramps." *Canadian Journal of Civil Engineering* 48, no. 9 (2021): 1063-1070.
- Hatem Almasaeid, Hunain Alkhateb, and Jacob Najjar. "Artificial Neural Network Modeling of Magnesium Oxysulfate Binders" Under submission.
- Hatem Almasaeid, Hunain Alkhateb, Jennifer Edmunson, Michael Fiske, and John Fikes. "Characterization of Martian (JSC-1A) and Lunar (JSC-1AF) Regolith Simulants and their effect on Magnesium Oxysulfate Mortar." Under submission.
- Hatem Almasaeid and Hunain Alkhateb. "Characterization of Magnesium Oxysulfate Paste for Additive Construction Applications." Under submission.
- Khalil Qatu, Hatem Almasaeid, Alhairth Manasreh, Xioabing Li, Yacoub Najjar, Ahmed Al-Ostaz and Hunain Alkhateb. "Characterizing the Stress-Strain Behavior of Nanocomposites Utilizing Artificial Neural Networks." Under submission.
- Hatem Almasaeid and Hunain Alkhateb. "3D printing of Magnesium Oxysulfate Paste and mortar." Under submission.