

## Curriculum Vita

### Personal Details

- \* **Name** : Raed Jamil Rasheed Al-Saleh
- \* **Date of Birth** : 15/3/1979
- \* **Place of Birth** : Amman-Jordan
- \* **Nationality** : Jordanian
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### Education

- **PhD in Civil Engineering**, in the major of **Structures** (Health monitoring and Control of Structures), University of Pavia, 2011, Pavia-Italy.
- **M.Sc in Civil Engineering**, in the major of **Structures**, Jordan University of Science and Technology, 2006, Irbid-Jordan.
- **B.Sc in Civil Engineering** (Roads, Bridges, and Airports), Al-Balqa' Applied University, 2003, Amman-Jordan.

### Experiences

#### Academic Experience:

- 9/2018- present: Assistant Professor, Civil and Environmental Engineering Department-SNREM, German Jordanian University (GJU), Jordan.
- 6/2019- 9/2022: Head of Civil and Environmental Engineering Department-SNREM, German Jordanian University (GJU), Jordan.
- 9/2017- 9/2018: Part-time lecturer, German Jordanian University, (GJU) Jordan.
- 9/2017-9/2018: Assistant Professor, Hussain Technical University (HTU), Jordan.
- 9/2011-9/2017: Assistant Professor, Department of Civil Engineering, Al-Zaytoonah University, Jordan.
- 9/2013-9/2014: Head of Civil Engineering Department, Al-Zaytoonah University, Jordan.
- 6/2011-8/2013: Part-time lecturer, Department of Civil Engineering, Faculty of Engineering Technology-AlBalqa University, Jordan.
- 5/2010-2/2011: Research assistant, Department of Civil and Structural Engineering, Polytechnic of Hong Kong University, Hong Kong.

**Professional Experience:**

- 3/2007-1/2008: Steel Structure Site Engineer; Consolidated Contractors International Company (CCIC). RGX project, Ras-Laffan Industrial City-Qatar.
- 7/2006-11/2006: Design Engineer, e-construct consulting company; Pre-cast & Pre-stressed concrete Designer and Workshop drawer. Cairo-Egypt.
- 3/2005-11/2005: Design and supervision Engineer (Cast in Situ. Concrete Structures), Manaseeb Consulting Office. Amman-Jordan.

**Languages**

- Arabic (Native language).
- English
- Italian

**Computer Skills**

Etabs.	Safe	Sap2000	STAAD Pro.
Marc Mentat.	Matlab.	ARTEMIS	PROKON.
MIDAS.	B-Line.	AutoCad	Microsoft Windows & Office.

**Courses Taught**

- Statics
- Strength of Materials and Lab
- Structural Analysis I & II
- Reinforced Concrete I, II, & III (ACI)
- Steel Structures (AISC)
- Prestressed Concrete (ACI)
- Foundation Engineering
- Structural Analysis and Design Using  
Computer Software: STAAD Pro., Etabs, Safe, and Prokon
- Supervising Graduation Projects in Structures
- Structural Systems I&II (for Architectures)
- Land Surveying (for Architectures)
- Traffic Engineering
- Public Transportation
- Airport Engineering
- Advanced Applied Mathematics for Engineers (MSc degree course)
- Advanced Numerical Methods (MSc degree course)
- Strategy for Sustainable Construction (MSc degree course)
- Probabilities and Statistics
- Surveying and Lab.
- Technical Writing
- Materials' Science
- Concrete Technology and Lab
- Structural Systems I & II

### Researches and Publications

- **MSc Thesis:** “Effect of elevated temperature on bond strength between steel reinforcement and fibre reinforced concrete”
- **PhD Thesis:** “Verification of wind pressure and wind induced response of a supertall structure using a long-term structural health monitoring system”.
- **Research Projects:**
  - Seed grant from GJU “Self-Monitoring of Smart Concrete Incorporating Carbon Nano fibers” *On going*.

- **Publications:**

- **International Journals**

- Raed AlSaleh, Ayman Nasir, Nour Atieh 2024, “Vibration Response of Euler-Bernoulli-Damped Beam with Appendages Subjected to a Moving Mass”, *Earthquake Engineering and Engineering Vibration*, DOI: <https://10.1007/s11803-025-2291-y>.
- Raed AlSaleh, Ayman Nasir, Ibrahim Abu-Alshaikh, 2023, “Investigating fractional damping effect on Euler-Bernoulli beam subjected to a moving load”, *Shock and Vibration*, vol. 2023, 19 pages.
- Mohammad M Hamed, Adnan Al-Masri, Zakariya M Dalala, Raed J AlSaleh, 2021, "Modeling the Time Duration Until the Adoption of Residential Rooftop Solar Photovoltaic Systems", *Journal of Energy Resources Technology*, vol (144)4, pp. 041302.
- R. AlSaleh, Y. Q. Ni, 2020, Condition Assessment of a Supertall Structure by an Improved Hilbert-Huang Transform and Empirical Mode Decomposition Method, *International Journal of Sustainable Materials and Structural Systems*, vol (4) 2/3/4, pp. 244-267.
- R. AlSaleh, and C. Fuggini, 2020, Combining GPS and Accelerometers' Records to Capture Torsional Response of Cylindrical Tower, *Smart Structures and Systems*, vol (25)1, pp. 111-122.
- R. AlSaleh, F. Casciati, A. El-Attar, I. El-Habbal, 2012, Experimental validation of an SMA retrofitting application, *Journal of Vibration and Control*, vol (18)1, pp.28-41.
- S. Casciati, R. AlSaleh, 2010, Dynamic behavior of a masonry civic belfry under operational conditions, *Acta Mechanica Journal*. vol. 215, pp.: 211–224.
- F. Casciati, L. Faravelli, R. AlSaleh, 2009, A SMA Passive Device Proposed within the Highway Bridge Benchmark, *Structural control and Health Monitoring Journal*. vol. 18, pp. 657-667.
- R.H. Haddad, R.J. Al-Saleh, N.M. Al-Akhras, 2008, Effect of elevated temperature on bond strength between steel reinforcement and fiber reinforced concrete, *Fire Safety Journal*, vol. 43, pp. 334-343.

**International Conferences**

- F. Casciati, L. Faravelli, R. AlSaleh, 2008, Semi-active versus Passive Controller within the ASCE Highway Bridge Benchmark, *The 9<sup>th</sup> International Conference on Motion and Vibration Control (MOVIC)*, Munich-Germany CD-Rom.
- F. Casciati, R. Al Saleh, 2008, Moving Toward the Multifunctional Building Suggested by Professor Kabori, *The 14<sup>th</sup> World Conference on Earthquake Engineering (14<sup>th</sup>CEE)*, Beijing-China CD-Rom.
- S. Casciati, R. Al-Saleh, 2009, Combining Numerical Methods with Experimental Data toward the Structural Rehabilitation Assessment of Ancient Masonry Landmarks. *Proceedings of The International Conference On Protection of Historical Building (Prohitech09)*. Rome-Italy. pp 1729-1734.
- R. AlSaleh, F. Casciati, C. Fuggini, 2009, Detecting the Torsional Behavior of a Tall Building by GPS Receivers. *Computational Methods in Structural Dynamics and Earthquake Engineering (COMDYN2009)*, Rhodos-Greece. (article CD438)
- F. Casciati, R. AlSaleh, C. Fuggini, 2009, GPS-Based SHM of a tall building: torsional effects. *Proceeding of The 7<sup>th</sup> International Workshop on Health Monitoring (IWSHM09)*. Stanford-USA, vol. 1. pp. 340-347.
- S. Casciati, R. AlSaleh, 2009, Vibration-Based Identification of Civic Bell Tower. *Proceeding of The 7<sup>th</sup> International Workshop on Health Monitoring (IWSHM09)*. Stanford-USA, vol. 2. pp. 1667-1673.
- F. Casciati, L. Faravelli, R. AlSaleh, 2009, Dynamic Architecture vs. Structural Control. *Proceeding of the IV Eccomas Thematic Conference on Smart Materials and Structures (SMAR'09)*. Porto- Portugal. pp. 203-213.
- R. AlSaleh, F. Casciati, A. El-Attar, I. El-Habbal, 2010, Experimental Investigation Toward an SMA Retrofitting Application. *Proceeding of the fifth European Workshop on Structural Health Monitoring*. Sorrento-Italy. pp. 1116-1123.
- R. Al-Saleh, S. Casciati, L. Faravelli, 2011, SHM-based robustness: a super-tall structure case study. *Proceedings of Robustness of Structures: the Final Conference of COST Action TU0601*, Prague, Czech Republic. pp. 205-230. ISBN: 978-80-01-04730-9.
- D. Ampeliotis, N. Bogdanović, K. Berberidis, F. Casciati, R. AlSaleh 2012. Power-efficient wireless sensor reachback for SHM. *Bridge Maintenance, Safety, Management, Resilience and Sustainability*. July, p. 220-226, CRC Press Balkem, ISBN: 9780415621243
- F. Casciati, L. Faravelli, R. Al-Saleh, K. Hinc, 2012, Structural Diagnostic via Compressive Sensing. *Bridge Maintenance, Safety, Management, Resilience and Sustainability*, July 9-11, p. 227-231, CRC Press, Balkema, ISBN: 9780415621243.

- D. Shehadeh, R. Al-Saleh, O. Alghazawi, 2016, Effect of Height of Reinforced Concrete Frame on Ductility Factor, Response Modification Factor, and Overstrength Factor when Subjected to Varying Accelerograms. *Proceedings of the 3<sup>rd</sup> International Conference on Environmental Design and Innovation (ZEC 2016)*, Amman-Jordan.

### Conferences, Seminars, and Courses attended

#### Conferences

- First Middle East Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2011), February 2011, Dubai-UAE.
- The International Conference On Protection of Historical Building (Prohitech09) 2009. Rome-Italy

#### Seminars and Courses

- Structural Analysis and Design (STAAD) Software. Al-Zaytoonah University of Jordan, 2012, Jordan.
- "Basic Teaching Techniques for Research Staff and Research Students (BTTR)". The Educational Development Centre- The Polytechnic University of Hong Kong, November 2010, Hong Kong.
- "Dynamic Architecture: Design by Logic, Art by Engineering". Dr. David Fisher-Dynamic Architecture Group. The Polytechnic University of Hong Kong, November 2010, Hong Kong.
- "Runway Skid Resistance Inspection and Grooving Performance Evaluation". Prof. Chia-pei Chou – National Taiwan University. The Polytechnic University of Hong Kong, January 2011, Hong Kong.