C.V.

Personal Data:

Name: Fahed Abdullah Alrshoudi
Current Position: Supervisor of Project Management, Operation and Maintenance, and Security and Safety Departments at King Saud University – Al-Muzahimiyah Branch
Rank: Associate Professor
DOB: 06/06/1978
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Education:

- Bachelor Degree from Civil Engineering College in King Saud University with GPA= 4.16 out of 5.
  Graduation Date: 2002
- Master Degree in Structural Engineering from Civil Engineering College in King Saud University with GPA 4.75 out of 5.
  Graduation Date: 2009
- PhD Degree in Structural and Materials Engineering from Civil Engineering School in Leeds University, UK
  Graduation Date: 2015

Work Experience:

- 2002: Safety Engineer at Shibh Al Jazira Contracting Company
- 2002 -2009: Teacher Assistance at Civil Engineering department in the King Saud University
- 2009-2015: Lecturer at Civil Engineering department in the King Saud University
- 2015-2020: Assistant Professor in Structures and Materials at Civil Engineering department in the King Saud University
- 2021-present: Associate Professor in Structures and Materials at Civil Engineering department in the King Saud University
- 2018-Present: Chair of one of Saudi Building Code Committees
- 2017-Present: Supervisor of Project Management, Operation and Maintenance, and Security and Safety Departments at King Saud University – Al-Muzahimiyah Branch
- 2020: Member of Failure Parking Committee created by The Governor of Riyadh Province

Side Works:

- Took part in several administrative works. For example, organizing Engineering Conference that was taken place in King Saud University, participating and supervising various activities which were done by The National Center for Assessment in Higher Education, and cooperating with National Centre for Academic Accreditation and Evaluation to perform academic assessment of several colleges at different university.
- Volunteered to supervise projects such as constructing Al Rass General Hospital (200 beds) which was conducted by Al Mansouryah General Contracting Co. Ltd.
- Within the engineering team that was in charge to study and repair concrete cracks that occurred in some structural members in King Fahd Security College.

Academic Projects:

- Comparison study between different versions of ACI Code Building.
- The effect of a durability on the behavior of Glass and Carbon fiber that strengthening reinforced concrete.
- Developed a "Design Methodology" of Carbon Fibre to be used as a main reinforcement to reinforce concrete member instead of steel reinforcement.

Training Courses:

A- Engineering Training Courses

1- Monitoring of fibre reinforced polymer structures, Chesterfield, UK
2- Defects and deterioration of concrete- causes, prevention and remedies, London, UK
3- Non-destructive investigation of building and structures, Manchester, UK
4- Assessment of in-situ strength of concrete structures, London, UK
5- Structural collapse, Bradford, UK
6- Preventing corrosion, Salford, UK
7- Aspects of corrosion, Wakefield, UK
8- Innovation in the construction industry, Leeds, UK
9- Structural asset protection and repair, Leeds, UK
10- Team leadership and management skills, Hull, UK
11- Autodesk Revit Architecture 2015 fundamentals, Riyadh, KSA
12- Geographical information system (GIS), Riyadh, KSA
13- Statistical Test Using SPSS, Riyadh, KSA
14- Project Management Professional PMP, Riyadh, KSA

15- 7 Habits of Highly Effective People, Riyadh, KSA

16- Continuous Improvement System Kaizen, Riyadh, KSA

17- Strategic Planning, Riyadh, KSA

18- Effective Communication Skills, Riyadh, KSA

19- Structural-Condition Assessment of Existing Structures, Portland, US

20- Program Evaluation, Riyadh, KSA

21- Leading Changes in Organization, Riyadh, KSA

22- Coaching for Optimal Performance, Riyadh, KSA

23- Project Cost Management- Estimating, Budgeting and Value, London, UK

24- Principles of Construction Contract, London, UK

Lively areas have been expolred and covered during postgraduate studies

- Structural Engineering
- Composite Materials
- Advanced Solids Mechanics
- Concrete Technology
- Strengthening concrete members
- Behaviour of structural members
- Pre-stressed Concrete Structures

In addition, many seminars and presentations have been attended.

B- Academic Training Courses

1- Statistical test using SPSS, Riyadh, KSA

2- Designing interactive presentation by Prezi, Riyadh, KSA

3- Effective-based teaching, Riyadh, KSA

4- Effective classroom design, Riyadh, KSA

5- Smart classroom, Riyadh, KSA

6- Assessment students learning outcomes, Riyadh, KSA

7- Effective course design, Riyadh, KSA

8- Micro teaching, Riyadh, KSA

9- Effective teaching, Riyadh, KSA

10- Design and build course teaching, Riyadh, KSA

11- Learning theories, Riyadh, KSA.

12- Writing and publishing books. Riyadh, KSA

13- Writing research proposal, Riyadh, KSA.

Expertise:

- Concrete Repair
- Strengthening and Retrofitting Structural Members
- Fiber Composites Reinforced Concrete
- Structural Consultant
- Project Management

Also, I have interest in energy saving and in using renewable materials.

Publications:

1- Alrshoudi, F. Purnell, P., Fabric efficiency factors in textile reinforced concrete, 32nd Cement and Concrete Science Conference, 17-18 September 2012 Queen's University, Belfast.

2- Alrshoudi, F. Purnell, P. Forth, J, Is the ultimate load of carbon textile reinforced concrete beams better related to the volume fraction or effective area parameter?, Conference Proceeding "Exploring the Potential of Hybrid Structures for Sustainable Construction", Fribourg, June 22-24, 2014.

3- Alrshoudi, F. Purnell, P., Bond efficiency factor at different textile geometries reinforced concrete beams, Second International Conference On Advances In Civil, Structural And Construction Engineering - CSCE 2015, Rome, 2015.

4- Alrshoudi, F. Purnell, P., Bond efficiency factor at different textile geometries reinforced concrete beams, International Journal Of Civil & Structural Engineering, Volume 2, 2015, Page(s):317 – 321.

5- Alrshoudi, F., Mohammadhosseini, H., Alyousef, R., Alabduljabbar, H., & Mustafa Mohamed, A. (2020). The Impact Resistance and Deformation Performance of Novel Pre-Packed Aggregate Concrete Reinforced with Waste Polypropylene Fibres. *Crystals*, *10*(9), 788.

6- Albidah, A., Altheeb, A., Alrshoudi, F., Abadel, A., Abbas, H., & Al-Salloum, Y. (2020, October). Bond performance of GFRP and steel rebars embedded in metakaolin based geopolymer concrete. In *Structures* (Vol. 27, pp. 1582-1593). Elsevier.

7- Albidah, A., Abadel, A., Alrshoudi, F., Altheeb, A., Abbas, H., & Al-Salloum, Y. (2020). Bond strength between concrete substrate and metakaolin geopolymer repair mortars at ambient and elevated temperatures. *Journal of Materials Research and Technology*, *9*(5), 10732-10745.

8- Alyousef, R., Mohammadhosseini, H., Alrshoudi, F., Alabduljabbar, H., & Mohamed, A. M. (2020). Enhanced Performance of Concrete Composites Comprising Waste Metalised Polypropylene Fibres Exposed to Aggressive Environments. *Crystals*, *10*(8), 696.

9- Mohammadhosseini, H., Alrshoudi, F., Tahir, M. M., Alyousef, R., Alghamdi, H., Alharbi, Y. R., & Alsaif, A. (2020). Durability and thermal properties of prepacked aggregate concrete reinforced with waste polypropylene fibers. *Journal of Building Engineering*, 101723.

10- Mohammadhosseini, H., Alrshoudi, F., Tahir, M. M., Alyousef, R., Alghamdi, H., Alharbi, Y. R., & Alsaif, A. (2020). Performance evaluation of novel prepacked aggregate concrete reinforced with waste polypropylene fibers at elevated temperatures. *Construction and Building Materials*, *259*, 120418.

11- Alrshoudi, F., Mohammadhosseini, H., Alyousef, R., Alghamdi, H., Alharbi, Y. R., & Alsaif, A. (2020). Sustainable Use of Waste Polypropylene Fibers and Palm Oil Fuel Ash in the Production of Novel Prepacked Aggregate Fiber-Reinforced Concrete. *Sustainability*, *12*(12), 4871.

12- Alrshoudi, F., Mohammadhosseini, H., Tahir, M. M., Alyousef, R., Alghamdi, H., Alharbi, Y., & Alsaif, A. (2020). Drying shrinkage and creep properties of prepacked aggregate concrete reinforced with waste polypropylene fibers. *Journal of Building Engineering*, 101522.

13- Alrshoudi, F., & Alshannag, M. (2020). Suitability of Palm Frond Waste Ash as a Supplementary Cementitious Material. *Arabian Journal for Science and Engineering*, 1-8.

14- Alabduljabbar, H., Alyousef, R., Alrshoudi, F., Alaskar, A., Fathi, A., & Mustafa Mohamed, A. (2019). Mechanical effect of steel fiber on the cement replacement materials of self-compacting concrete. *Fibers*, *7*(4), 36

15- Alaskar, A., Alyousef, R., Alabduljabbar, H., Alrshoudi, F., Mohamed, A. M., Jermsittiparsert, K., & Ho, L. S. (2020). Elevated temperature resistance of concrete columns with axial loading. *Advances in concrete construction*, *9*(4), 355-365.

16- Alrshoudi, F. (2021). Behaviour of textile-reinforced concrete beams versus steel reinforced concrete beams. *Advances in Civil Engineering*, *Volume 2021*, 8 pages.

17- Alrshoudi, F., Abbas, H., Abadel, A., Albidah, A., Altheeb, A. and Al-Salloum, Y., 2021. Compression behavior and modeling of FRP-confined high strength geopolymer concrete. *Construction and Building Materials*, *283*, p.122759.