



# **Academic Curriculum Vitae**

## **Personal Information:**

Full Name: Dalshad Kakasor Ismael Jaff  
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## **Education:**

- 1. B.Sc. in Civil Engineering / Salahaddin University / 1982**
- 2. M.Sc in Civil Engineering / Structures / Salahaddin University / 1986**
- 3. Ph.D. in Civil Engineering / Construction Materials / Baghdad University / 2000**

## **Employment:**

**02/08/1987** Date of first assignment in Civil Engineering Department. College of Engineering .  
University of Salahaddin , Iraq.

**02 / 08 / 1987** Assist. Lecturer.

**02/04/1997** Lecturer.

**02/04/2001** Assist. Prof

## **Qualifications**

- **Teaching methods May 1986** Teaching method course. Salahaddn University.
- **Computer sciences**
- **Major experience in construction engineering such as civil works consultant, structural design and analysis of different structures, Preparation of working drawings**

and tender documents. Analyzing existing structures and troubleshooting and providing expert opinion on distress conditions. Providing consultancy services for construction supervision projects, by reviewing designs, evaluating proposals by contractors and solving design problems to suit actual site conditions.

- Manages and directs the pricing and contract administration on proposed and existing contracts. Provide management guidance and control for the efficient utilization of human resources to include assignment, performance, and training of staff.
- In addition, experience includes Job-Mix preparation, sampling and testing, safety evaluation and testing of existing buildings/non-destructive tests. Feasibility studies, as well as project control/management, and cost control.
- Over 42 years' experience in the civil engineering field, primarily for major international organizations like (Un-Habitat, FAO, UNCIEF and UNDP) and local authority in the region,
- As a structural design engineer, I worked in preparing the design, drawings and all documentations required for most of the civil works projects in UNDP/ENRP North of Iraq for three years from 2001 to 2004
- As a senior design engineer, I supervised and coordinate the work of a team of architects, civil/structural engineers, electrical engineers and draftspeople and ensured the proper discharge of their duties.
- Prepare civil works designs, specifications, cost estimates and bill of quantities.
- Analyze structures and provide expert guidance particularly in structural engineering.
- Review the designs and drawings of a design team members and act as principal drawing checker.
- Drafting of contracts and proposing relevant clauses for civil works specifications to be included in the contract documents..
- Prepare redesigns to suit actual site conditions and troubleshoot and solve design problems with existing and under construction structures.
- Monitor the progress of the execution of the contracted works and monitor the contractor's compliance with the approved work schedule .
- Issue weekly activity reports , highlighting any difficulties encountered and delay anticipated in the civil works projects.

## Teaching experience:

- Engineering Mechanics / BSc
- Descriptive geometry/ BSc
- Strength of Materials/ BSc
- Structural analysis / BSc
- Reinforced Concrete Design/ BSc
- Building Construction / BSc
- Construction Methods/ BSc
- Quantity surveying and estimation/ BSc
- Civil And Structural drawings/ BSc
- Structural Steel Design / BSc
- Engineering Project / BSc
- Sustainability in Construction/ Higher Diploma
- Advanced Concrete Technology / MSc
- Durability of Concrete / MSc
- Sustainable Construction Management / MSc
- Novel Concrete Materials / PhD
- Mega Construction Management / PhD
- Supervising several MSc & PhD students

## Research and publications

1. Soft Computing and Machine Learning-Based Models to Predict the Slump and Compressive Strength of Self-Compacted Concrete Modified with Fly Ash. July 2023 *Sustainability* 15(15):11554
2. Machine learning techniques and multi-scale models to evaluate the impact of silicon dioxide (SiO<sub>2</sub>) and calcium oxide (CaO) in fly ash on the compressive strength of green concrete. July 2023 *Construction and Building Materials* 400(4)
3. Effitoned soft computing models to evaluate the impact of silicon dioxide (SiO<sub>2</sub>) to calcium oxide (CaO) ratio in fly ash on the compressive strength of concrete. June 2023 *Journal of Building Engineering* 74(1)
4. A Review on Self-Healing Concrete. February 2023 *Advanced Materials Research* 1175(7):139-148
5. Geopolymer Concrete: Properties, Durability and Applications-Review. May 2022 *Reciklaza i održivi razvoj*
6. Evaluation of Full-Scale Concrete Frames Exposed to Natural Fires at Early Ages. April 2020 *ZANCO Journal of Pure and Applied Sciences* 32(2)
7. Flexural Capacity and Behaviour of Geopolymer Concrete Beams Reinforced with Glass Fibre-Reinforced Polymer Bars. March 2020 *International Journal of Concrete Structures and Materials* 14(1):14
8. Flexural strength and failure of geopolymer concrete beams reinforced with carbon fibre-reinforced polymer bars. *Construction and Building Materials*. Volume 231
9. Comparison of the Flexural Performance and Behaviour of Fly-Ash-Based Geopolymer Concrete Beams Reinforced with CFRP and GFRP Bars. Volume 2020 | Article ID 3495276 | <https://doi.org/10.1155/2020/3495276>
10. VALIDATION OF FERETION OF FERET REGRESSION MODEL FOR FLY ASH BASED GEOPOLYMER CONCRETE. *Polytechnic Journal Polytechnic Journal*
11. Prediction of the compressive strength of strain-hardening cement-based composites using soft computing models. *Structural concrete , Journal of fib.* First published: 01 June 2023
12. Strength estimation of concrete produced in Kurdistan region using combined method. *ZANCO J. Pure Applied Sci.* 2016/10/19 Vol.28
13. A Review on Self-healing Concrete - A Biological Approach. *Recycling and Sustainable Development* 16 (2023) 01-14
14. Evaluation of Concrete Quality for Reinforced Concrete Frame Members Exposed to Natural Fires at Early Ages Using in situ Test Methods. *The Open Civil Engineering Journal*. Volume: 13. Year: 2019
15. Literature Survey on Self-Compacting Concrete. *International Research Journal of Engineering and Technology (IRJET)*. Volume: 04 Issue: 12 | Dec-2017

## Conferences and courses attended

Several Conferences related to Civil Engineering Discipline.

## Funding and academic awards

Nil

## Professional memberships

- 1. Consultant Engineer / Kurdistan Engineers Union
- 2. Consultant Engineer / Iraqi Engineers Union
- 3. ACI Kurdistan Chapter board member
- 4. ACI Iraqi Chapter board member.

## Professional Social Network Accounts:

[https://www.researchgate.net/profile/Dilshad\\_Jaf](https://www.researchgate.net/profile/Dilshad_Jaf)

<https://scholar.google.com/citations?user=aIRkaAQAAAAJ&hl=en>

[https://www.facebook.com/?ref=tn\\_tnmn](https://www.facebook.com/?ref=tn_tnmn)

<https://orcid.org/0009-0008-7805-8831>

- I am Dr.Dalshad Kakasor Jaff , born in Erbil (Iraq) in 1960. I received the BSc. degree in civil Engineering from Salahaddin University-Erbil in 1982, MSc. degree in Structural Engineering from Salahaddin University-Erbil in 1986 and PhD. degree in Structural Engineering / Construction materials from Baghdad University in 2000.
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- My fields of interests include the following:
  - 1. Structural engineering behavior of reinforced concrete and Steel structures
  - 2. Construction materials properties.
  - 3. Non –destructive tests of concrete structures.
  - 4. Evaluation of existing structures.