

# Aras Jalal JalyZada

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## Summary

I have a **PhD** degree from the **University of Nottingham / UK** (July 2016) in the areas of **BIM** application, structural engineering, and collaborative design.

I have experience in **Structural Design, Construction, and Supervision** of engineering works besides **teaching** at the university for many years. I have seven years' experiences working with the World Health Organization (**WHO / UN**) in Baghdad, Jordan & Erbil. Moreover, I worked with **four consultancy companies/bureaus** in Iraq, UK and France.

I am skilled in using **ETABS, STAAD Pro, Autodesk Robot, and GSA** software for analyzing and designing structural projects. I am conversant in modeling with **Revit** software and also proficient with **AutoCAD 2D&3D**, which I have used for nearly twenty-five years.

I have worked on a range of engineering projects, such as hospitals, industrial, and commercial buildings. In addition, I have great skills in supervision and monitoring different projects as well as the preparation of bill of quantities, and cost estimates.

## Education

**PhD in Civil Engineering (Structural engineering and informatics)**      **2012 - 2016**  
**University of Nottingham/ UK**

- Research title is "Versioning of IFC based BIM models for collaborative design".
- The research was to improve the collaborative design process to manage several changes in different BIM models. IFC standard was extended to cope with the changes of multi-disciplinary designers.
- Advanced software was developed and interfaced with Revit software to implement and validate the extended IFC and to manage the whole design process.
- Engaged in demonstration different modules (BIM, AutoCAD, independent structure and steel structure).

**MSc in Civil engineering (structural department)**      **1997 - 2000**  
**Baghdad University/ Iraq**

- Grade: pass with Distinction (83.75%)
- Modules included: advanced concrete & structure engineering, finite element, plate and shell, computation
- Research project was "Dispersal of highway loading in slab-deck bridges "

**BSc in Civil Engineering**      **1994 - 1997**  
**Baghdad University/ Iraq**

- Grade: Pass with Distinction (77.38 %) and my rank was the 3rd out of 205 students.
- Modules included: structure, concrete, steel, mechanics, materials, geology, statistics, survey, fluids, soil mechanics, foundations design, transportation engineering, and computer.

## Work Experience

**Technical College/ Erbil**      **November 2009 - Present**  
**Lecturer**

- Teaching modules in Structural Engineering, Steel structures, Strength of Material, Engineering Mechanic, BIM & Revit software, Estimation of Materials, Construction Technology, and civil drawing.
- Supervising final year students with their project and attending to seminars and conferences.
- Coordinated visits to construction sites and engineering factories for undergraduate students.
- Scientifically evaluating the manuscripts/ papers that are sent to Polytechnic Journal for publishing.

**Tishk international university/ Erbil**      **October 2019 - Present**  
**Lecturer/ part time**

- Teaching modules in BIM & Revit software.
- Supervising final year civil and architect students with their projects.

**SGW Consulting Group/ UK**      **October 2016- August 2018**  
**Senior BIM Engineer**

- Prepare concept, schematic and detail drawings using AutoCAD, Revit and Sketch Up software.
- Identify and verify security specifications by examining architectural documents.

- Prepare tender package components showing project requirements, system schematics & visualizations.
- Develop SGW's company CAD system and symbols library.

### **Engineering Consultancy Group "E.C.G." / Kurdistan-Iraq**

**July 2005 - July 2011**

#### **Structural Designer and CAD Engineer**

- Structural design of 42 projects (200 beds/ maternity hospital, Residential complex "427 houses", 3 office buildings "15 floors", 21 commercial buildings, traffic directorate, 2 malls, 2 hotel, 2 restaurant & different houses).
- Worked as part of structural team in design eleven projects (Ministry of Work and Social Affair, elders' house, 3 hotels, and different industrial and commercial buildings).
- Prepared full set of structural drawings using AutoCAD software for most of the projects mentioned above.
- Prepared architectural and sanitation drawings using AutoCAD.
- Prepared bill of quantities and tender documents.
- Supervision of the construction several projects.
- Project manager of three projects, from its beginning to its end.
- Worked with the design team of French bureau "TIC" to structural design and prepare drawings (using AutoCAD), for Cultural Centre (including three theatres) and Tourist complex in Karag/ Sulaimaniah.
- Provided reports on all the above as required.

### **United Nations- World Health Organization (WHO)**

**January 2002 - May 2009**

#### **Structural Designer, Civil Engineer, CAD Engineer and Supervisor.**

- Worked for three WHO offices of Iraq (five years in Erbil, one year in Baghdad and one year in Amman).
- Prepared structural drawings of fourteen projects (hospitals, nursing college, labs, doctor resident, and building).
- Doing bidding, tendering, analysing, and estimation quantities of many projects.
- Supervised and site visit for the rehabilitation and new construction projects of health facilities.
- Member of the committee to review the process works and final acceptance of the projects.
- Setting out Project works in accordance with Drawings & Specification
- Attended meetings with Clients, Contractors and stakeholders.
- Prepared technical and financial reports of all projects.

### **KAR Group Company**

**October 2005 - August 2007**

#### **Structural Designer.**

- Designed and prepared structural details of different projects (Olympic village, residential apartment, ministry of youth and sport, and 60 building for refinery oil project).
- Supervised and visited different projects carrying out structural works.
- Attended regular meetings with the oil and gas team.

### **Falcon Company/ Consultant Bureau**

**January 2004 – October 2004**

#### **CAD Engineer and Structural Engineer**

- Participated in structural design, prepared details drawings, arranged bill of quantities and estimated cost of two projects (Cultural Centre "including three theatres", and 400 apartments).

### **Petros Khamo Bureau**

**January 2001 - January 2002**

#### **AutoCAD Technician.**

- Worked with the structural team for three projects (Chegre and two building).
- Doing bidding, tendering, analysing, and estimation quantities of many projects.

### **Skills and Expertise**

- Ability and willingness to work in different working environment.
- Good planning and organizational skills.
- Experience in design different types of buildings (concrete and steel).
- Able to use structural analysis and design programs (STAAD Pro, SAP, GSA, ETABS).
- Proficient in using AutoCAD (2&3D), Revit software and SketchUp.
- Using programming languages (C# and Visual Basic)
- Using Microsoft office (Word, Excel, Access, Power Point, and project), Visio, etc...

### **Workshops and Publications**

- Participated in many national and international conferences and workshops:
- Attended five Workshops (USA, Egypt, Jordan and Iraq).
- Participated in ten conferences (UK, USA, Netherlands and Japan).

### **References**

- To be provided on request.