**DIANA ABDULHAMEED**

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   +1 (604) 360-2915

*A Civil Engineer with more than 10 years of experience. Capable of working independently with minimum supervision and committed to providing high quality service to every project, with focus on health, safety and environmental issues. Professional, capable, and motivated individual who consistently performs in challenging environments.*

PERSONAL SKILLS

**Team Work:** Accustomed to working in groups during academic projects and range of society involvements.

**Leadership skills:** Able to handle and lead a team as shown on a regular basis in my role as a group leader in an engineering consulting company (Dar al-handasah).

**Communication:** Confident verbal communication and presentation skills acquired from public talks, conference presentations and lectures given at the university to an audience that range from small groups up to large groups with 120 people. Achieved consistently good marks for academic assignments and reports as evidence of excellent written communication skills.

**Problem Solving:** Able to deal with problems calmly and efficiently as it was my role to deal with construction site problems that needs immediate and accurate solutions. Careful to approach situations in a neutral non-personal manner, employ active listening skills and ask appropriate questions to get to the root of the problem. Proceeded to work with group of people to help identify options and agree on the next course of action.

COMPUTER SKILLS

* Proficient in using main Microsoft Office applications and number of specialized scientific packages. (Microsoft Office ; Words, Excel, Power Point)
* Proficient in using Finite Element based software such as; ANSYS, Abaqus, Mimics, STAAD, SAP2000, Oasys GSA, AutoCAD 2D, Slope and Geo-Slope.

PROFESSIONAL EXPERIENCE

*Dialog Design Residency Participant*

* Creating an urban environment where residents feel engaged and help them enjoy Edmonton’s laneways.
* Incorporating open spaces, sidewalks, trees, landscaping and lighting into the urban fabric.

**DIALOG**

EDMONTON, AB.

February 2018

*Stress Analysis Engineering Intern*

* Perform static analysis of piping and pipe support systems.
* Built finite element models using ABAQUS, AutoPIPE & CAESAR II software for pipeline systems to investigate the behaviour of pipe bends under different loading conditions.
* Developed a mathematical model that estimates the increase in stress due to the Bourdon effect.
* Proposed an approach of implementing the proposed factor in the different piping software.

**TransCanada Pipeline**

CALGARY, AB.

October 2015 –

February 2016

*Research Assistant, Civil and Environmental Engineering Department*

* Project 1: “The effect of internal pressure on the tensile strain capacity of X52 pipelines with circumferential flaws”

Experimental tests were conducted to evaluate the tensile strains for 8 full-scale pipes with circumferential cracks at the girth weld subjected to internal pressure and eccentric tensile load. Digital Image Correlation system was used to measure the strains in addition to strain gauges. A journal paper is published with the conclusions.

* Project 2:

FEA method is used to investigate the effect of internal pressure and in-plane bending load on the behaviour of pipe bends. New design factors are developed to incorporate the increase in stresses due to the toroidal effect of pipe bends and to account for the Bourdon and Ovalization effects.

**University of Alberta**

Edmonton, AB.

January 2014 –

January 2018

*Structural Design Engineer, Team lead*

<https://www.dar.com/work?&region=middle-east&sort=alphabetically&page=1>

Involvement in the analysis, design, and supervision of various steel structures of mixed-use developments, Airport & hotel facilities, Multi-purpose & residential facilities, theaters, conference center buildings and industrial plants.

* Analysis, design calculations and preparing structural drawings, specifications for tender and construction issue in addition to coordination tasks for many building projects in the middle-east and Africa.
* Checking of shop drawings and documents submitted by contractors.
* Supported construction administration (i.e. field reviews, shop drawing reviews, site clarifications and RFI responses).

**Dar al-handasah**

Cairo, Egypt.

February 2008 –

December 2013

* Coordinated with project management teams and engineers from different trades to maintain comments logs, status reports, and project deliverable/packages.
* Review of the submitted design calculations for the Dubai international airport Terminal 3. Review of the design of steel members and connections submitted by the contractor as per AISC 2010 and BS standards.

<https://www.dar.com/work/project/dubai-international-concourse-c>

<https://www.dar.com/work/project/haramain-high-speed-rail-(hhsr)>

<https://www.dar.com/work/project/islahiyat-buildings>

<https://www.dar.com/work/project/king-abdul-aziz-international-airport>

<https://www.dar.com/work/project/king-saud-bin-abdulaziz-university-for-health-sciences>

<https://www.dar.com/work/project/princess-nora-bint-abdulrahman-university>

<https://www.dar.com/work/project/dubai-international-concourse-b>

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*Teaching assistant, Structural department*

* Teaching the design of simple and rigid steel connections, different steel structural elements (i.e. steel joists, trusses, arch, combined columns, monorails, steel frames …etc.) and different bridge structural types.
* Supervised the Students’ graduation projects. Guiding them through the analysis process of the structure using different finite element software and producing the final project drawings.

**Ain Shams University**

Cairo, Egypt.

September 2006 –

December 2013

*Research assistant, Structural department*

* Investigating lateral torsional buckling of steel beams by performing an experimental study using ANSYS software.
* Extensive analytical study for the behaviour of overhanging steel beams used as monorails and cranes. The effect of adding vertical stiffeners with different sizes on the behaviour of the steel overhanging beams was studied.

EDUCATION

*Doctor of Philosophy, Structural Engineering*

Thesis: “A study on the Bourdon effect and ovalization effect of pipe bends subjected to internal pressure and in-plane bending”.

GPA: 3.97/4.0

**University of Alberta**

Edmonton, AB.

January 2014 –

January 2018

*Master of Science, Structural Engineering*

Thesis: “Lateral torsional buckling of Mono-symmetric over-hanging Monorails”.

GPA: 4.0/4.0

**Ain Shams University**

Cairo, Egypt.

September 2007 – March 2013

*Bachelor of Science, Structural Engineering*

GPA: 3.6/4.0 (Overall Grade; Distinction with honor. Standing 2 of 193)

**Ain Shams University**

Cairo, Egypt.

September 2001 – June 2006

VOLUNTEERING AND COMMUNITY ENGAGEMENTS

* The Boyle street lunch for homeless, The Green Room, Edmonton, AB, Canada. (January 2015).
* Edmonton Heritage Festival, Edmonton, AB, Canada. (August 2014).
* Liberal Art’s day, University of Alberta, Edmonton, AB, Canada. (March 2014).
* The Read-In Week, University of Alberta, Edmonton, AB, Canada. (October 2014).
* Science club funday, University of Alberta, Edmonton, AB, Canada. (March 2014).
* Member of “Alashanek ya Balady" Non-profit organization, Cairo, Egypt. (2005 to 2009).
* Volunteering member of the "Palestinian Women's Union", Egypt, Cairo. (2009 to 2013)
* Feeding the homeless project. Cairo, Egypt (2010).
* Member of the Non-profit organization "Zedny" in human development sessions, Egypt, Cairo. (2006)
* The Egyptian Craftopia carnival & bazaar as a coordinator, Cairo, Egypt. (6th June 2015)

EXTRACURRICULAR ACTIVITIES

* Finalist for the World Challenge Challenge 2017, University of Alberta.
* President for the Young Pipeliners Association of Canada, University of Alberta Chapter.
* The Vice president Student Affairs for the 2016-2017 Civil and Environmental Engineering Graduate Students’ Association CEEGSA 2016-2017
* The Marketing Coordinator for the 2nd annual Structures Graduate Students Conference, Edmonton, Alberta, Canada. (September 5th, 2016)
* The Conference Chair for the 1st annual Structures Graduate Students Conference, Edmonton, Alberta, Canada. (September 4th, 2015)
* A member of the organizing committee for the 1st annual Young Pipeline Association of Canada (YPAC), Edmonton, Alberta, Canada. (August 28th, 2015)
* Member of the Quality Assurance Unit, Ain Shams University, Cairo, Egypt. (2007 to 2013)