

ISHA GALAZ ABDULLAH

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EDUCATION

University of North Carolina at Charlotte, Charlotte, NC

Master of Science in Civil Engineering, Concentration: Structures

December 2020

- Cumulative GPA: 3.909 / 4.0.
- Master's Project: Exploiting the Equilibrium Matrix to Ensure the Geometric Stability of Planar Trusses.

Texas A&M University, Doha, Qatar

Bachelor of Science in Mechanical Engineering

May 2013

- Distinguished Student, Spring 2013 GPA: 3.684/4.0.
- Study Abroad Program at Texas A&M, College Station, TX.

January 2012 – August 2012

SKILLS

- Programs: SAP2000, Abaqus, Mathcad, AutoCAD, AutoCAD 3D, SHAKE91, MATLAB, LabVIEW, SolidWorks, Adobe Illustrator, and Microsoft Office.
- Languages: Fluent in English; intermediate in Spanish and Arabic.

EXPERIENCE

University of North Carolina at Charlotte, Charlotte, NC

Teaching Assistant for Structural Analysis

September 2020 – December 2020

- Graded weekly homework assignments and provided feedback to 67 students.
- Replied to student emails to clarify concerns and to answer specific course content questions.
- Assisted during virtual lectures by answering student questions submitted via Webex chat.
- Provided virtual tutoring if requested by a student, each session typically involved one to two students and lasted about an hour.

Teaching Assistant for Structural Steel Design I

January 2020 – May 2020

- Graded assignments for a class of 36 students.

Teaching Assistant for Structural Analysis

August 2019 – December 2019

- Proctored exams and graded homework and quizzes for 59 students.
- Assisted the professor during the recitation sessions by answering student questions.
- Guest lectured when requested. This involved consulting with the instructor and planning the lecture by creating an example problem to present and solve with the class.

Self-Employed, Indian Trail, NC

Professional Math and Science Tutor

January 2014 – June 2017

- Tutored K-12 students, using NC Common Core Standards, which resulted in an average improvement of two letter grades.

Schlumberger, Doha, Qatar

Engineering Surface Lab Intern, Drilling and Measurements (D&M) Segment

July 2013 – August 2013

- Suggested changes to training material (process mapping) of standard operating procedures (SOPs) to better reflect current practices by interviewing, job shadowing, and working hands-on with the D&M team.
- Observed servicing and qualification testing of Rotary Steerable Systems (RSS), Logging While Drilling (LWD), and Measurement While Drilling (MWD) tools on a shop floor that adhered to Lean Six Sigma 5S methodology.
- Increased efficiency of inventory times by developing an inventory sheet that visually aided new engineers with surface tool identification with the goal of increased accuracy and decreased time required to set-up offshore logging units.
- Conducted inventory and assisted in setting up offshore logging units.
- Configured data acquisition boxes based on sensor requirements of the client.
- Hardware tested surface sensors (signal pressure transducers, drawworks encoders, hook load sensors, and radiation mud monitors).
- Created an Excel file that tracked upcoming due dates of required inspections and pressure tests and enclosed hyperlinks to current certificates to keep the D&M segment in compliance with local oil and gas drilling regulations.
- Completed Schlumberger Injury Prevention Program Level 1.

Texas A&M University, Doha, Qatar

Project Leader for Mechanical Engineering Senior Design – Oil and Gas Downhole Impact Test Apparatus

August 2012 – May 2013

- Led a team of 4 to create a device that would qualify Measurement While Drilling (MWD) equipment for downhole impact conditions of up to 22,000 N.
- Researched, wrote technical reports and bill of materials, modeled in SolidWorks, assembled and tested prototype.
- Delivered 4 technical presentations to industry leaders, professors, and students during different project phases.

Texas A&M University, Doha, Qatar

Mechanical Engineering Laboratory Assistant

May 2011 – December 2011

- Investigated the application of the Data logging and Supervisory Control LabVIEW Module in a heat exchanger experimental setup.
- Prepared weekly progress reports that evaluated results, discussed future tasks, and evaluated and recommended equipment purchases.
- Gave a conference presentation on a project that used LabVIEW PDA to calculate calories burnt according to a person's velocity while walking with a Wii Remote: **Abdullah, I.**, Jonnalgadda, D. and Juartiyono, B. (2011, May). *Advanced Physical Activity Calorimeter*. Oral project presentation at Zayed University's 3RD Annual Undergraduate Research Conference on Applied Computing, Dubai, UAE.

CONTINUING EDUCATION

South Piedmont Community College, Monroe, NC

- Mechatronics

November 2017

Central Piedmont Community College, Ballantyne, NC

- Six Sigma Green Belt

May 2017

Central Piedmont Community College, Matthews, NC

- AutoCAD 3D Drawing & Modeling

December 2013