

## Summary

### Objective

- Be part of a teaching team that collectively delivers effective, practical and quality education. My industry experience ranging from structural design to structural remediation and integrity assessment along with product development will add to the depth & breadth of the faculty. As a goal oriented, adaptable and customer driven team-player, I will add value to the educational institution.

### Industries

- Education
- Onshore & Offshore Oil & Gas

### Types of Facilities

- Production & Drilling Facilities

### Areas of Expertise

- Teaching
- Detailed Engineering
- Project Management

## Professional History

- University of Texas - Tyler
- TestMasters
- University of Houston
- Texas A&M University
- University of Missouri-Columbia
- Wood Group Kenny
- SBM Atlantia, Inc.
- ABB Lummus Global, Inc.

## Qualifications

### Education

Ph.D., Civil Engineering (Structures), Texas A&M University  
M.Sc., Civil Engineering (Structures), Univ. of Missouri-Columbia  
B.Sc., Civil Engineering, Bangladesh University of Engineering & Technology

### Registrations / Certifications / Licenses

TBPE PE Civil-Structural License No. 132110

TBPE EIT No. 19328

### Software / Skills

- Structural Package(s) – ANSYS, SACS
- Graphics & Mathematical Package – AUTOCAD, MATHCAD

### Codes & Standards

#### *Extensively Used*

- ASCE 7 / AISC / IBC
- ABS / API / DNV Class Rules for Floating Platform Installation

#### *Working Knowledge*

- ACI 318 / AASHTO / PCI / NDS / TMS

### Special Training

#### *AISC - Houston*

- "New 2005 AISC Specification" – 1/9/2006
- "Steel Design After College" – 11/2/2005

#### *DNV - Houston*

- "Plated Structure Design, Planning & Scheduling" – 08/16/2011
- "Fatigue Design of Structures" – 11/4/2008
- "Plated Structure Introduction" – 03/6/2007 & 03/7/2007
- "Buckling Strength Analysis-Stiffened Plates & Shells" – 01/26/2001

#### *ANSYS - Houston*

- "Basic Structural Non-linearity's" – 10/26/2009 & 10/27/2009
- "ANSYS Basic Training Course" – 08/05/1998

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## Teaching Experience

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### University of Texas - Tyler, College of Engineering (CoE)

Houston, TX

Assistant Professor of Practice (Full-Time Teaching Faculty)

(2018 - Current)

#### **Department of Civil & Construction Engineering and Management, Houston Engineering Center (HEC)**

Teach civil-structural, construction management and general civil-engineering courses – ‘Mechanics of Materials (CENG 3306)’, ‘Structural Analysis (CENG 3325)’, ‘Applied Engineering Hydrology and Hydraulic Design (CENG 3361)’, ‘Civil Engineering Materials, Codes and Specifications (CENG 3434/CENG 3334)’, ‘Design Timber Structures (CENG 4318-5318)’, ‘Civil Engineering Construction Management (CENG 4339)’, ‘Leadership, Professionalism & Public Policy (CENG 4341)’, ‘Reinforced Concrete and Steel Design (CENG 4412)’, ‘Construction Structural Systems I (CMGT 3310)’, ‘Introduction to Construction Estimating (CMGT 3311)’ and ‘Construction Applications for Steel (CMGT 4315)’. Prepare, administer, and grade quizzes and exams. Assess letter grade for class. Faculty advisor to AISC student club. Participate in ABET accreditation process and CoE outreach programs.

### TestMasters

Houston, TX

Instructor

(2018 - Current)

Teach FE (EIT certificate) and PE (Professional License) candidates “Statics”, “Mechanics of Materials”, “Fundamentals of Engineering (Stress Analysis)” and ‘Structural Analysis and Design’ courses. Both in-class and online (Webex) mode of instructions are utilized.

### University of Houston, College of Technology

Houston, TX

Guest Instructor

(2015 - 2018)

#### **Department of Mechanical Engineering Technology**

Guest Instructor for – ‘Fundamentals of Offshore Systems – Structural Analysis and Design (MECT 4326)’. Every spring semester in-class team teach fundamentals of structural analysis and design of fixed and floating platforms. Prepare homework and assist with class project and assignment of letter grade.

### Texas A&M University, College of Engineering

College Station, TX

Instructor/Teaching Assistant

(1989 - 1998)

#### **Department of Civil Engineering**

As Instructor - Taught ‘Mechanics of Materials (CVEN 305)’ in-class. Prepared, administered, and graded homework, quizzes, and exams. Assessed letter grade for class.

As Teaching Assistant - Conducted in-class tutorial session for ‘Mechanics of Materials (CVEN 305)’. Held office hours and graded homework and quizzes. Assisted with the assignment of letter grade for class.

Non-Teaching - Graded homework and minor exams for ‘Civil Engineering Systems (CVEN 322)’.

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## University of Missouri, College of Arts & Science

Instructor

Columbia, MO

(1986 - 1989)

### Department of Mathematics

As Instructor - Taught 'College Algebra (MATH 1100)' in-class. Prepared, administered, and graded homework, quizzes, and exams. Assessed letter grade for class.

## Industry Experience (Abridged Version)

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### Wood Group Kenny

Senior Consultant (Structures)

Houston, TX

(2013 -2016)

#### **Inpex, Ichthys Semi-Submersible and FPSO Floaters, Browse Basin - Australia**

Supervised and led the driven anchor pile structural design team of 3 engineers and 1 designer. Performed miscellaneous design calculations as per applicable codes and standards. Issued valid for construction drawings and design reports on time and within budget.

#### **APC, Marco Polo Tension Legged Platform (TLP), Gulf of Mexico - USA**

Performed detailed structural design assessment of sub-sea umbilical remediation clamp attached to the steel floater via non-linear Finite Element Analysis (FEA). A report with recommendations was issued.

### SBM Atlantia Inc.

Principal Lead Structural Engineer

Houston, TX

(2003 -2013)

#### **BP / Hess, Southern Mississippi Canyon Production Hub Semi-Submersible Steel Floater, Gulf of Mexico - USA**

Directly supervised and led all activities of the structural design team of 6 engineers and 3 designers in relation to the design of plated steel floater during pre-feed, feed and execution readiness phase of the project. Delivered to client numerous documents and drawing sets at different revision levels ranging from C's (Request For Quotation (RFQ)) to V's (Valid For Construction (VFC)) on time and within budget.

Other activities I performed were structural steel framing, scantling (structural sizing of members), defining Scope Of Work (SOW)/Master Document Register (MDR)/Cost, Time and Resource (CTR), scheduling deliverables/manpower loading, producing design basis and specifications, reviewing vendor documents, providing Material Take Off (MTO)/Bill Of Quantities (BOQ) data, conducting design reviews/meetings and issuing Minutes Of Meeting (MOM), client/vendor interfacing, responding to clarifications/e-comments/Technical Query (TQ), participating in Hazard Identification (HAZID)/Hazard Operability (HAZOP) workshops, issuing weekly/monthly progress report, managing Design Change Form (DCF), mentoring/guiding team members, assisting in the generation of Plant Design Management System (PDMS) model of plated steel floater for clash checks, Computer File Archive Log (CFAL), etc.

#### **Anadarko, IHUB Semi-Submersible Steel Floater, Gulf of Mexico - USA**

Directly supervised and led a team of 2 engineers to perform FE model migration activity of the plated steel floater as part of a 4-year integrity management plan. Generated CTR/manpower loading and interfaced

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with client/vendor. Delivered to client verified Global, Node & Top-of-Column (TOC) FEA models. Also issued drawings identifying strength based Structural Critical Inspection Points (SCIP's) for Phase 1 & 2 of the 4-year integrity management plan. All client deliverables were on time and within budget.

Additionally performed the foundation steel structure design to support the top-side deck expansion on the north-west TOC and issued a report.

## **ABB Lummus Global Inc.**

Senior Structural Engineer

**Houston, TX**

(1998 -2003)

## **ConocoPhillips, Magnolia ETLP Steel Floater Design, Gulf of Mexico - USA**

Conducted applicable steel code based structural strength, buckling, fatigue and weld design of the 'NODE' structure for the Magnolia ETLP steel floater. Performed extensive FE analysis to verify and weight optimize (reduction of 10% ~ 12%) the design of the NODE structure. Conducted NODE design review. Issued 'NODE' VFC drawings and design report on time and within budget. Responded to construction site, classing agency and client inquires

## **EMDC, Kizomba-A ETLP Steel Floater Design, Offshore Angola**

Conducted applicable steel code based structural strength, buckling and weld design of the 'COLUMN' structure for the Kizomba-A ETLP steel floater. Performed extensive FE analysis to verify and weight optimize (reduction of 10% ~ 12%) the design of the COLUMN structure. Conducted COLUMN design review. Issued 'COLUMN' VFC drawings and design report on time and within budget. Responded to construction site, classing agency and client inquires