

Summary

Objective

- Honored to be part of a faculty pool collectively delivering effective, practical and quality education. My industry experience ranging from structural design to structural remediation and integrity assessment along with product development adds to the depth & breadth of the faculty pool. As a goal oriented, adaptable and customer driven team-player, I add value and progress to the 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, SkyCiv, SACS
- Graphics & Mathematical Package – AUTOCAD, MATHCAD

Codes & Standards

Extensively Used

- ASCE 7 / AISC / IBC / ACI / NDS
- ABS / API / DNV

Working Knowledge

- AASHTO / PCI / 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

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 engineering and 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)’, ‘Construction Structural Systems I (CMGT 3310)’, ‘Introduction to Construction Estimating (CMGT 3311)’, ‘Reinforced Concrete Design (CENG 4311)’, ‘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 Applications for Steel (CMGT 4315)’ and ‘Leadership, Law and Ethics (CONE4341)’. Prepare, administer, and grade quizzes and exams. Assess letter grade for class. Supervised one MSCE graduate student and served on the exam committee of five additional MSCE student. Served on numerous committees ~ Civil Engineering Department - Faculty search 2022-2023-2024 & Head search 2024 and College of Engineering (CoE) - Student Scholarship 2022-2023-2024 and HEC Student Success Coordinator search 2024. Current Faculty advisor to ‘AISC Student Club at UT-Tyler HEC’ and former Faculty advisor to ‘ASCE Student Chapter at UT-Tyler HEC’. Lead Civil Engineering Faculty conducting Fall Ratliff Relay student activity at UT-Tyler HEC. Actively participate in ABET accreditation process and strongly support CoE outreach programs (Spring Ratliff Relay for Community College and High School Students, In-Class visit to Community Colleges etc.).

TestMasters

Houston, TX

Instructor

(2018 - Current)

Teach FE (EIT certificate) and PE (Professional License) candidates “Fundamentals of Engineering (Stress Analysis)” and “Structural Analysis and Design” review courses. Mode of instruction utilized is either in-class or online (Zoom / Webex). Have taught “Statics” and “Mechanics of Materials”.

University of Houston, College of Technology

Houston, TX

Guest Instructor

(2015 - 2018)

Department of Mechanical Engineering Technology

Guest Instructor teaching – ‘Fundamentals of Offshore Systems – Structural Analysis and Design (MECT 4326)’. For the stated period, 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.

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Texas A&M University, College of Engineering

Instructor/Teaching Assistant

College Station, TX

(1989 - 1998)

Department of Civil Engineering

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

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)'.

University of Missouri, College of Arts & Science

Instructor

Columbia, MO

(1986 - 1989)

Department of Mathematics

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)

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 Floater, Gulf of Mexico - USA

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,

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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 Floater, Gulf of Mexico - USA

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 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.