

Matt Albright, P.E.

Civil/Structural Engineering

Email: Info@MEZGAconsulting.com

www.MEZGAconsulting.com

Houston, TX, USA

Summary

Years of Experience

28

Industries

- Oil and Gas
- Upstream
- Midstream
- Offshore
- Onshore
- Property Loss

Types of Facilities

- Gas Gathering & Compression Facilities
- Processing Facilities
- Wellhead Platform
- Gravity Base Platform
- Arctic Facilities
- Jackets
- Caisson
- FPSO

Areas of Expertise

- Structural Steel
- Foundations
- Onshore Compressor Stations
- Offshore Structures
- Pre-Service & Installation Engineering
- Marine Engineering
- Engineering Inspection Reports

Qualifications

Education

Bachelor of Science in Civil/Structural,
Bluefield State College, West Virginia

Associate of Applied Science in Civil/Structural,
Central Virginia Community College, Lynchburg,
Virginia

Registrations / Certifications / Licenses

Texas Professional Engineer Civil #105846

Software / Skills

- SACS / StruCAD
- RISA 3D / Foundation / Connection
- SESAM GeniE
- STAAD
- MathCad
- Navis Works
- Structural Analysis
- Engineers TOOLKIT
- MS Office Suite / Google Suite

Professional History

- MEZGA Consulting Engineering PLLC (Owner / Director 2023)
- Leach Engineering (2021 - 2023)
- Wood (2016 - 2021)
- WorleyParsons (2011 - 2016)
- AMEC / Paragon Engineering Services (1999 - 2010)
- Brown & Root Energy Services (1999)
- J. Ray McDermott Engineering (1996 - 1998)
- John E. Chance & Associates (1995 - 1996)

ATTACHMENT - Project Experience

Structural Engineering

Versabar, Decommissioning Projects, Gulf of Mexico

Structural engineering analysis of a new build conductor removal tower (65 ft tall) for multiple platforms being decommissioned in the Gulf of Mexico. Generate technical documentation manual of equipment installation, operation, and removal procedure for the conductor removal tower. Perform topside analyses to determine maximum allowable deck loadings during platform decommissioning operations.

Structural Engineering

R&D Specialties, Power Distribution Buildings, West Texas

Structural engineering for custom steel buildings housing MCC, VFD and ancillary equipment in these transportable power distribution buildings. Perform structural lift analysis, transportation analysis and in-place analysis. Prepare and issue Basis of Design and Structural Analysis documentation. Building sizes of (60ft L x 15ft W), (73ft L x 16ft W), (23ft L x 13ft W) for various R&D Specialties customers.

Structural Inspection Reports

Leach Engineering, Engineering Inspection Reports, Texas / Louisiana

Technical report writing (+45 reports) for structural engineering inspections of commercial buildings and residential buildings. Gather field engineer's data (site visit photographs, field notes, customer data), research property data, research weather events, research soil data, and provide technical opinion of the causation of the reported property damage. Write technical engineering report for submission to the client.

Structural Engineering

Noble Energy, Alen Platform, Offshore Equatorial Guinea, Africa

Ad hoc structural engineer to support turn-around activities for replacement of flare tip. Perform structural analyses and recommend mitigations for damaged flare boom members found during structural inspection.

Structural Engineering

Husky Energy, WEST WHITE ROSE PROJECT (Topsides), Offshore Newfoundland, Canada

Structural engineer for steel topsides (23,000 MT pre-service and 31,000 MT in-service design weight) of the West White Rose Topsides on a concrete gravity structure for LAYOUT OPTIMIZATION, DETAIL and FOLLOW-ON design phases. Responsible engineer for oversight of the primary steel pre-service analyses and detail calculations for jacking, loadout, transportation and installation conditions. Provide structural engineering support for interfaces with 3rd party teams of: fabrication contractor, marine transportation contractor and marine installation contractor. Other duties include: structural design basis, LMU installation aid technical support engineer, transportation sea-fastening, topsides installation lifting point engineering, Topsides to CGS connection engineering and detailing, and general engineering report/calculation checking.

Structural Engineering Lead

ExxonMobil, HEBRON Project FOLLOW-ON Phase (Topsides), Offshore Newfoundland, Canada

Structural engineering lead for steel topsides (65,000 MT topsides design weight) for the Hebron concrete GBS platform for post-detail design phase. Coordinate structural engineers and designers for supporting the project thru fabrication phase of topsides modules. Provide support to fabrication teams, marine installation engineering teams, in-province installation and integration teams. Other duties include activities such as: staffing management, responsible for structural deliverables, design change management, platform performance standards, operational design resume, topsides structural inspection requirements, regulatory and certification close-out.

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Structural Engineering Lead

ExxonMobil, Hebron Project FEED and DETAIL Phases (Topsides), Offshore Newfoundland, Canada

Structural engineer for steel topsides (65,000 MT topsides design weight) for the Hebron concrete GBS platform. Area lead for the primary steel framing. Coordinate primary steel analyses (pre-service thru in-service conditions), Loadout, Transportation (conditions including trans-oceanic, catamaran barge/floatover, and final tow-out), Integration (installation of LQ, Flareboom and Drilling modules to complete the topsides) and 4 operational conditions. Other duties include; perform configuration (framing concepts) study analyses, coordinate deliverables, monthly weight tracking, interface systems (3rd party/vendor communications) and project control inputs.

Structural Engineering Lead

Cabinda Gulf Oil Company Ltd., (Chevron), Mafumeira Sul Project (MSP) Front End Engineering Design (FEED), Offshore Angola

Structural Engineering Lead for Living Quarters/Utility Platform (LQP) in 161 foot water depth. Team lead of five engineers for the structural design of a 57,000 square foot deck and four leg jacket with main pile foundation. Performed platform in-place, transportation, lift, on-bottom stability, mudmat, and detailed pile design analyses. Met compressed schedule for bid issue of drawings and engineering reports. Provided structural material and component lift weights in support of a Class 3 Estimate for all structures.

Structural Engineering Lead

Cabinda Gulf Oil Company Ltd. (Chevron), South Malongo Area Development (SMAD) Pre-FEED, Offshore Angola

Project consisted of nine fixed platforms with multiple connecting bridges in water depths ranging from 50 feet to 160 feet. Provided structural material and component lift weights in support of a Class 2 Estimate for all structures. Structural Lead for wellhead platforms providing in-place structural analysis for 28 well/riser platform in support of the Class 2 Estimate.

Structural Engineering Lead

Chevron Australia Pty Ltd., Gorgon Project - Jansz Compression Platform, Offshore NW Australia

Structural Engineering Lead for Class 2 Estimate of a topsides facility for floating compression platform (semi-submersible). Prepared and issued weight and center of gravity reports for 24,400 short ton topsides facility. Performed layout and structural analysis for a topsides deck consisting of bi-directional truss system (261 feet x 261 feet x 2 level) with 260-foot vertical flare tower.

Structural Engineering

ExxonMobil, Kizomba A and B Gas Gathering / Satellites (Block 15), Offshore Angola

Performed engineering and design (Brownfield) for expansion of existing floating production storage offloading units (FPSOs) and the associated equipment, piping, and electrical supports including structural modifications to multi-module primary and secondary steel. Performed engineering and design for pancake extension to existing FPSOs and the associated piping and electrical supports.

Structural Engineering Lead

Samsung Heavy Industries/Chevron, Takula Gas Processing Platform (TGPP), Offshore Angola

Project involved 186 foot water depth, four leg jacket with three level deck, 72" diameter piles, 150 foot truss bridge, and 230 foot flare. As Topsides Structural Engineering Lead, performed deck, bridge, and flare analyses including in-place storm, crane operating, loadout, transportation and lift cases. Additionally, responsible for marine engineering including skid shoe design, seafastening and grillage design. Reviewed and issued construction drawings, design documentation, and reports.

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Civil / Structural Engineering Lead

Williams, Eunice Station 50 – Horsepower Replacement Project, Onshore Louisiana

Served as Civil/Structural Engineering Lead responsible for preparing construction bid package, structural procurement, design documentation, and reports. Reviewed construction drawings and coordinated preparation of drawings with the drafting department. Performed the following engineering: compressor building foundation design; equipment foundations including turbo compressor, generators, coolers, silencer, heaters, sumps, and intake/exhaust ducts; design piping; and electrical supports and foundations.

Civil / Structural Engineering Lead

Anadarko Petroleum, Monell CO2 Flood Compression Expansion II, Battery A, Onshore Wyoming

As Civil/Structural Engineering Lead, performed the following engineering for drilled shaft foundations: equipment foundations including turbo compressor, glycol contactor, cooler, regen package, and vapor recovery package. Designed piping and electrical supports and foundations.

Civil / Structural Engineering Lead

Bay-Inelectra, Offshore Fabrication Yard Facilities, Coastal Onshore Mexico

Project involved new offshore fabrication yard facilities located on the Rio Panuco. Civil/Structural Engineering Lead responsible for performing engineering for ship berthing dolphins and mooring piles designed to accommodate a Bertling 188m x 27.7m cargo ship and/or a 400 foot flat bottom cargo barge. Several design options were performed with steel piling and concrete piling configurations. Performed engineering for a combined concrete sheet pile bulkhead and relieving platform (21 foot dredged water depth at bulkhead face). Designed to accommodate an offshore structural platform loadout of 6000 metric tonnes.

Structural Engineering

Devon Energy, BM-C-8 Campos FEED, Offshore Brazil

Project involved 340 foot water depth, four-leg, six-well platform. Performed platform in-place analyses for material estimates.

Structural Engineering

El Paso Energy, South Pass 55A, Gulf of Mexico

Designed temporary restraints for “wild” conductors resulting from damages due to Hurricane Ivan. Performed calculations and proposed scenarios for salvage of the remaining conductors.

Structural Engineering

SWECOMEX / Pemex, Platforms HA-KU-H, HA-KU-M, HA-KU-S, ZAAP-C, Gulf of Mexico

Project involved a bid estimate of four quarters platforms in water depths ranging from 200–260 feet. Generated jacket models for in-place design. Prepared material estimates for bid preparation.

Structural Engineering

SWECOMEX / Pemex Manik Platform, Gulf of Mexico

A. Generated 260 foot water depth, eight-leg, 12-well, 54-inch main pile jacket for use in loadout, transportation, and upending analyses.

Structural Engineering

Anadarko Petroleum Corporation, Tarantula, South Timbalier 308, Gulf of Mexico

Project involved 482 foot water depth, eight-well drilling and production deck. Designed support steel for drilling engine exhaust lines and monorail system for skid package. Performed installation engineering review for deck grillage, flare boom, seafastening, and installation guides.

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Structural Engineering

BP, Mardi Gras, Cleopatra Gas Gathering, Ship Shoal 332A Platform, Gulf of Mexico

Project involved the addition of new 20-inch gas pipeline and receiver skid. Performed design and analysis of hanger clamps and new subcellar deck addition and verification of existing deck beams to handle new loading. Provided installation engineering and scenarios for lift of new subcellar deck.

Structural Engineering

Addax Petroleum, Development, Ltd. – Adanga South Water Injection Platform, Offshore Nigeria

Performed design and analyses of minimal structures using varying concepts of braced caissons in water depth of 46 feet. Analyses included in-place storm, deck component design, crane operating, deflection control, component lifts, and detailed steel design. Reviewed and issued construction drawings, design documentation, and reports.

Structural Engineering

BP, Mardi Gras Transportation System, South Pass 89'E' Platform, Gulf of Mexico

Performed design and analysis for three-level deck (60 x 90 ft. leg spacing) and four-leg jacket (4-96-inch O.D. skirt piles) in water depth of 392 feet for booster pump station facilities. Global analyses included in-place storm, natural period, and fatigue cases. Jacket analyses included loadout, transportation, side lift, upending lift, and on-bottom stability cases. Deck analyses included in-place storm, crane operating, transportation, and lift cases. Provided engineering support to fabricator during jacket construction including skid shoe design, support steel, and wind load analysis. Reviewed and issued construction drawings, design documentation, and reports.

Structural Engineering

BP, Mardi Gras Transportation System, South Pass 89 'A' Deck, Gulf of Mexico

Performed design and analysis for new build deck (45 ft. x 90 ft. leg spacing) on an existing jacket (four main and four skirt piles) in water depth of 393 feet. Deck analyses included in-place storm, crane operating, transportation, and lift cases for booster pump station facilities.

Structural Engineering

BP, Mardi Gras Transportation System, Ewing Bank 826 Platform, Gulf of Mexico

Performed in-place global structural analyses for existing Gulf of Mexico eight leg (12 skirt piles) drilling and production platform in water depth of 483 feet. Project scope included determining if structure was adequate to handle the addition of booster pump station facilities.

Structural Engineering

Unocal, Steelhead ESP Expansion, Cook Inlet, Offshore Alaska

Performed compressor skid modal analysis for upgrade of an existing compressor module. Reviewed equipment locations and designed supporting steel.

Structural Engineering

Whiting Petroleum Corporation, HI-98L, Well #10 Caisson, Gulf of Mexico

Project involved a single wellhead protector caisson in 45 feet of water. Performed structural analysis for in-place storm conditions for caisson, deck, and boat landing. Prepared construction bid package, design documentation, and reports. Reviewed construction drawings and coordinated preparation of drawings with drafting department.

Structural Engineering

Chevron Offshore Thailand, Ltd, Benchamas FEED – BWD and BWE Wellhead Platforms

Project involved two four-pile platforms with 12-18 wells in 230 feet of water. Performed in-place operating and storm analyses, on-bottom jacket installation stability analysis, and foundation (mudmat) design. Reviewed construction drawings, prepared design documentation and reports, and coordinated with drafting preparation of drawings.

Structural Engineering

Chevron Offshore Thailand, Ltd, Benchamas II FEED Expansion BPP Process Platform

Performed structural feasibility studies for the addition of a new flare line to an existing flare boom, replacement of an existing oil heater skid (effectively doubling the skid weight), and the addition of a flotation cell skid.

Structural Engineering

Shell, SMI-76P Condensate Meter Upgrade, Gulf of Mexico

Designed skid for new meter package and reviewed fabrication drawings. Investigated existing deck for new equipment locations and verified structural integrity of deck beams and support girders. Determined support locations for the skid and prepared details for the installation of the new equipment. Reviewed construction drawings, prepared design documentation and reports, and coordinated with drafting for preparation of drawings.

Structural Engineering

Kerr-McGee, Ewing Bank 910, Gulf of Mexico

Project involved upgraded accessibility for existing quarters and provided access walkways and stairs to facilities on the drill deck. Analyzed walkway tie-in locations on temporary quarters building and checked roof design for additional loading. Determined support locations on deck and designed modifications. Reviewed construction drawings, prepared design documentation and reports, and coordinated with drafting for preparation of drawings.

Structural Engineering

Addax Petroleum, Tanker Mooring Platform, Offshore Nigeria

Designed modifications to platform main deck and boat landing for addition of a davit/trolley system for unloading supply boats. Reviewed construction drawings, prepared design documentation and reports, and coordinated with drafting preparation of drawings.

Structural Engineering

Bufete International, Cantarell Field, Personnel/Pipe Bridge, Gulf of Mexico

Designed padeyes for installation of a 400-foot, 1200-ton personnel/pipe bridge between two existing platforms. Performed a parametric study for bridge loadout and transport (the length of bridge would not fit on existing cargo barges). Designed seafastening for transport loads and developed fabrication details. Reviewed construction drawings, prepared design documentation and reports, and coordinated with drafting preparation of drawings.

Structural Engineering

Caterpillar Compression Systems, Kaji Field, PT-Expansion Compressor Skid, Onshore Indonesia

Prepared an analysis model of a compressor skid and performed a dynamic modal analysis to determine skid support requirements to ensure that the structural frequency was not within +/-20% of the operating frequency of the equipment. Defined anchor bolt locations to match modal analysis. Performed a skid lift analysis and designed the padeyes.

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Civil / Structural Engineering

Obigbo Associated/Shell Petroleum Development Corp., Gas Gathering Project, Onshore Nigeria

Performed dynamic analyses of block-mounted and pile-supported centrifugal and reciprocating compressor foundations. Designed spread-footing foundations for process vessels, buildings, related equipment, and pipe and access support structures, including multi-level pipe racks, maintenance and operational access platforms, flare line supports, and piping/electrical miscellaneous supports. Assisted in design of civil site preparation, including drainage, roads, and fencing. Prepared civil and structural design and construction specifications. Reviewed construction drawings, prepared design documentation and reports, and coordinated with drafting preparation of drawings.

Civil Engineering

J.M. Huber, Durango Compressor Expansion Facilities, Durango, Colorado

Coordinated development of civil site work, including grading, drainage, roads, and fencing. Performed dynamic analyses for block-mounted centrifugal compressor foundation. Designed spread footing foundations for process vessels, buildings, related equipment, and pipe and access support structures, including multi-level pipe racks, maintenance and operational access platforms, flare line supports, and piping/electrical miscellaneous supports. Reviewed equipment vendor drawings and coordinated with the building vendor for calculations and details for building structure. Coordinated the development of geotechnical requirements for the civil and foundation design for the facility, including preparation of the geotechnical specification and review and interpretation of the geotechnical report.

Structural Engineering

Shell, Malampaya Platform Development, Offshore Philippines

Provided detailed steel design of equipment supports and pipe supports on a three-level deck (90m by 40m) for offshore gas production and processing facilities.

Structural Engineering

Pemex, Cantarell Field Development, Gulf of Mexico

Installation Engineering and Support Services, 19+ Platforms, Cantarell Field, Bay of Campeche, Gulf of Mexico. Performed structural review of loadout, lift, and transportation analyses. Conducted jacket stability analyses and design of lifting appurtenances. Performed pile drivability analyses using pile driving software GRLWEAP.

Civil / Structural Engineering

Sakhalin Energy Investment Co. Ltd., Sakhalin II Project, Molikpaq Platform (GBS), Offshore Russia

Offshore Sakhalin Island, Russia. Served as Weight Control Engineer for the mobile Arctic caisson Molikpaq (18 module platform). Final platform weight estimated at 51,900 metric tonnes. The lift weight for the 2,222 metric tonne process module was estimated within 0.5% of the final weighed weight. Designed piping support systems and equipment skids as well as computer modeling and analyses.

Civil / Structural Engineering

Ras Laffan LNG Company, Ltd., Ras Laffan North Field Complex, Offshore Qatar

Eight-Platform Complex, North Field, Offshore Qatar. Served as Weight Control Engineer for five decks in 200-feet of water. Lift weights were estimated within 3% of the final weighed weights. Also, coordinated with interdisciplinary engineers to track, maintain, and report on platform weight and center of gravity changes throughout project design.

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Survey Technician

Onshore / Coastal / Offshore

Performed offshore surveying for marine construction projects, including Gulf of Mexico pipelays, core sampling, and ROV navigation. Conducted depth-of-burial surveys for pipeline crossings beneath rivers, lakes, bays, etc.; hydrographic surveying; point layout for seismic data acquisition; and conventional route surveying for inland pipelines.