

Gloria E Carmona
C. 281-999-3535
gloria.carmona@hccs.edu

Piping Design and Instructor

Education:

Bachelor's Degree, Interdisciplinary Studies, University of Houston
Associates Degree, Drafting-Technical, Houston Community College

Summary: **Degreed Piping designer with 11 yrs. experience in Piping and Mechanical Equipment Design, HVAC Offshore for Petrochemical projects, Offshore Material Handling . Extensive education in Math, Sciences, Mechanical and Piping Design. Versatile, self-motivated and organized with excellent people skills. Articulate. Proficient in PDMS, AutoCAD, Blue Beam, MicroStation. Trained in SmartPlant, SmartPlant Review, AutoPlant, Inventor, ETank.**

Specific Experience:

Adjunct Instructor
Drafting and Design
Houston Community College
2013 – Present

The mission of the Drafting and Design Engineering Technology Program is to provide the most current technical training in Architectural or Engineering Design Drafting disciplines. In keeping with this mission, I teach PDMS and AutoCad from the piping prospective. I teach students to:

- A. Produce technical drawings using geometric construction techniques.
- B. Apply dimensional concepts, in accordance with industry standards, in the production of technical drawings that are of the appropriate scale and proportion.
- C. Identify, analyze, and categorize complex two dimensional models and three-dimensional models in the planning of a drawing solution. Utilize computer-aided design software in the production of civil, electrical, mechanical, or architectural drawings.
- D. Demonstrate knowledge of design industry standards in the production of civil, electrical, mechanical, or architectural drawings.

Senior Designer
Fluor
01/2015 – 5/2016

Sasol North America, Inc.
Sasol Lake Charles Cracker Project
Lake Charles, Louisiana, United States

Fluor, in a Joint Venture with Technip, is managing the provision of engineering, procurement and construction management for a 1500 kTA ethane cracker and five derivative units (LDPE, LLDPE, EO/MEG, Guerbet, Ziegler, ETO).

Piping design, Interface Coordinator, Flow Diagram Change Notification Coordinator and tracking for piping department, Special Support Coordinator. In-house CAD support. Work with designers, engineers, leads, managers to make sure that P&ID's are correct and that approved changes on FDCN are carried into working masters. Interface: Attend interface coordination meetings, work with designers and managers to achieve consensus, verify interface location in model, populate interface location table,

resolve discrepancies and disconnects. FDCN: build documentation file with forms and marked up P&ID's. Check designers marks on P&ID's to make sure they make sense. track progress through approval system, verify in model when needed. Assist process, engineers, leads, and managers through they process of changes in P&ID's Coordinate changes with other departments. Expanded Line List. AutoCad, SPR, SP3, Blue beam.

PDMS Piping / Mechanical Designer
Worley Parsons
2014 - 01/2015

Esmeraldas Merox
Ecuador -Brown Field Revamp
Work location: Houston, Tx USA

PDMS 3D Model work. AutoCAD, LFM Laserscan. Area Lead.

Modeled all equipment existing, modified and existing using preliminary drawings from field. Located and oriented equipment. Worked closely with Mechanical Designer to incorporate needed design changes. Designed platforms for equipment, piping, some pipe rack, structural support. Reviewed and marked up fabricator drawing, P&ID's. Pipe Iso production.

As Area lead, managed 2 pipers in piping design of the largest area. Coordinated and reviewed work, tracked progress, monitored check packages to checker and to stress, Created check and stress packages. Some piping design. Assisted in creating procedures for UDA(PDMS) entry, check packages, nozzle orientation procedures, developing access/egress routes. Worked with structural discipline on platform design and plan for demolition of some existing supports. Provided preliminary piping information to stress for sizing PSV's. Contact point for all disciplines for my assigned area and back up for other areas.

PDMS Mechanical/Piping Designer
Worley Parsons
2013 - 2014

Exxon
Hebron Project
Work location: Houston, Tx USA

PDMS 3D Model work, AutoCAD design drawings

Worked within Mechanical group doing Material handling design: Added, checked and finalized material handling volumes needed for effective equipment removal. Assisted Material handling engineers in determining removal routes using 3D model, located and modeled volumes, pad eyes and monorails. Worked with all disciplines in various locations to track the placement and modeling of pad eyes and monorails throughout the model. Produced and periodically updated 2D layout drawings taken from the 3D plant model as model progressed. Modeled material handling equipment. Assisted engineer with installation strategy. Resolved and/or reassigned clashes using PDMS Clash Manager.

PDMS HVAC Designer
Worley Parsons
2012 - 2013

TRANSNET PIPELINES-ARUP
NMPPP
Work location: Johannesburg, South Africa

New Multi Product Pipeline Project (NMPPP) Detail Design Joint Venture – TransNet Pipelines, ARUP; Johannesburg, South Africa PDMS 3D Model work AutoCAD design drawings:

Reviewed design, clashes, tagging and ductwork corrections and marked up contractor drawings.

For Terminal 1–Durban: Coordinated and set up meetings, set agenda; coordinated discipline concerns and documentation necessary for completion of short and long term goals. Interfaced with discipline leads, designers, contractors, commercial personnel to keep project moving forward.

For Terminal 2-Johannesburg: Met with HVAC designer, contractors, discipline leads to discuss design issues, deficiencies, and conflicts. Reviewed HVAC drawings from contractors. HVAC site inspections identify issues and drive resolutions of construction issues.

Coordinated and tracked HVAC documentation with contractors. Created Data Sheets for Piping Special Items and Special Supports. Compiled Manual Valve list and Special Items list to be used for procurement. Met with Valve vendors and stress engineers for product selection. Created building services co-ordinations drawing for 6 buildings. Assisted Stress and Structural Engineers in review of line stops for stress evaluation. Assisted Piping, Electrical and Instrumentation with CAD work.

PDMS, AutoCad 2011, Navisworks.

Mechanical / Piping Designer
Worley Parsons
2011 - 2012

ConocoPhillips
Project location: Various States, USA
Work location: Houston, Texas USA

Analyzed and reviewed Piping and Mechanical drawings for as built accuracy. Developed process for Data system cleanup of Terminals and pump stations data base. Reviewed P&ID's, SLD's, Safety and Environmental drawings. Communicated with field personnel to determine accuracy. Corrected drawings, eliminated redundancies and archived unnecessary drawing. MicroStation, Falcon Document Control System.

HVAC Designer
Worley Parsons
2010 - 2011

ExxonMobil
ENL - Sakhalin-1 Arkutun Dagi Project
Work location: St. Petersburg, Russia
and Okpo-Dong, S. Korea and
Houston, Texas USA

PDMS 3D Model work: Checked Model against reports and purchase orders. Tagging and ductwork corrections. Compiled data for D&ID checking. Reviewed/ marked up D&IDs. Worked closely with HVAC engineer and procurement to clarify and complete equipment orders.

HVAC PDMS 3-D Designer

Daewoo- SME Okpo-Dong
Work location: S. Korea

Designer in WorleyParsons' on-site team at fabricator s office.
Responsibilities included: Completed equipment and ducting design in Living Quarters PDMS 3D model to allow fabrication. Corrected design flaws and updated to D&ID's when needed. Updated equipment in model to vendor GAs & specs. Supported HVAC and other WorleyParsons engineering team personnel. Worked directly with ExxonMobil site engineers to address design issues. Produced reports out of PDMS.

HVAC PDMS 3-D Designer

CKB Rubin
Work location: St. Petersburg, Russia

Provided HVAC PDMS 3-D Design assistance as a member of on-site team at Russian subcontractor responsible for Living Quarters design.

HVAC design. Coordinated implementation of Model revisions & changes with Rubin designers Piping Isometric drawings generation (PDMS Isodraft). HVAC Isometric drawings generation (PDMS Draft). Checked HVAC Iso's against D&IDs, specifications and SMACNA

Mechanical Designer
Worley Parsons
2008 - 2010

Petrobras Comperj Petrochemical Complex
Rio de Janeiro, Brazil
Work location: Houston, Tx USA

Mechanical designer on FEED for \$8.5 Billion oil/ gas and petrochemical plant.
Key designer in production team for 1,000+ mechanical equipment datasheets and drawings.
Assisted design team lead in maintaining consistency, quality and productivity using a common sense approach with engineers to ensure drawing production was consistent with client standards.

Responsibilities included:
Team orientation and guidance in use of client standards to maintain quality.
Established procedures, developed standards and templates for mechanical equipment drawings to

ensure consistency and compliance with client specifications. Prepared drawings & datasheet for ASME Sec.VIII Div.I Pressure Vessels, API 650 Tanks. Software assistance for team, workarounds for system limitations. Maintained standard templates, blocks and CAD files. Served as interim team lead.

Contractor

Self-employed

2007 - 2008

Houston, Texas, United States

Third Coast Bank – Initiated Mortgage loan documentation process for start-up bank.
Financial Analysis, Coordinated Title company policy and closing on 2nd lien mortgages.

University of Houston-Scholarship and Financial Aid Office- Researched student eligibility and limits.
Coordinated financial aid, scholarships and grants to correspond to student records, limits and eligibility.
Created and led process for grantor letter production.

Underwriter / Credit Analyst

Washington Mutual Corporation

2003 - 2007

Houston, Texas, United States

Underwriter/Credit Analyst - Small Business Lending

Underwriter/Credit Analyst - Consumer Lending

Analyzed and approved credit applications to company and governmental guidelines and standards.

Manager

Fleetwood Homes / HomeOne Mortgage

2001 - 2003

Houston, Texas, United States

Manager-Mortgage Coordinators and Loan Processors

Pioneered processing department. Interviewed, hired, trained & developed employees.

Developed processes, managed software, productivity reporting.

Training:

AVEVA PDMS Basic Piping and Equipment Version 12 (Skills update) (2010)

Green Process Piper Program (2010)

SmartPlant 3D (2015)

Professional Associations:

Society of Piping Engineers and Designers (SPED)

Adjunct Instructor with HCC System- Classes- AutoCad and PDMS