

MICHAEL BARKER

Professional Industrial Designer

MbarkerDesigns@Gmail.com

720.261.8140

Objective: Senior Piping Designer / CAD Administrator

A highly motivated Industrial Designer with over 14 years of design experience using AutoCAD and various other 3D modeling platforms. Capable of and comfortable with leading design projects and design/draft teams. Familiar with Upstream and Midstream operations and the design/layout of process equipment, piping, skid/site layout and structural steel. Knowledgeable in AutoCAD drafting practices, and experienced in producing clean drawings that both look great and are accurate and useful for fabrication and construction. Focused on drawing production quality and design time optimization by implementing the tools within the AutoCAD and CADWorx Plant software packages. Beneficial to any team due to a drive to be successful, a thirst for knowledge, the capability of retaining pertinent information, a professional work ethic, the desire to develop a quality product, the ability to help/teach others and a personable demeanor.

Professional Experience:

Jacobs Eagleton Engineering - Chief Mechanical Designer (November 2013 - Present)

- Responsible for modeling plant/skid equipment and piping from data sheets, vendor drawings, pipe spec and P&IDs.
- Responsible for overseeing Senior Designers model creation & verifying accuracy to data sheets and vendor drawings.
- Responsible for delegating annotation work to Mechanical Drafting team and back checking all drawing content.
- Responsible for Project specific ISOGEN set up, Spec Editor accuracy, XRef Structure, File structure and Drawing Lists.

Folsom Engineering - AutoCAD Drafter/Visualization Specialist (November 2010 - Present)

- Freelance designer responsible for back checking incoming vendor drawings to P&IDs.
- Responsible for all Photo Realistic renderings of Pump, Filter and LACT Unit skids for marketing and presentations.

Mustang Engineering - Mechanical Designer II (October 2013 - November 2013)

- Responsible for Piping Model verification to P&IDs and Piping Plan back checks.
- Responsible for CADWorx ISOGEN setup, creation and back check to both models and P&IDs.

Enserca Engineering - Mechanical Designer I (November 2012 - October 2013)

- Responsible for all Equipment modeling, Piping modeling, Skid Steel modeling and project XRef Structure.
- Responsible for P&ID creation, piping plan annotations, key plan and plot plan creation and annotations.
- Responsible for all Equipment fabrication drawing creation, BOMs and back check of team members work for IFC.

Tebo Store Fixtures - Director of Design (January 2012 - November 2012)

- Responsible for the creative design of mechanical fixtures, custom built to showcase a clients product line.
- Responsible for the creation of fixture models and 2D annotation for overseas fabrication.
- Responsible for all inner office 2D media, promotional print products and display animations.

Custom Carpentry of Evergreen - Project Manager (February 2003 - November 2010)

- Responsible for deciphering building plans, ordering materials, scheduling project phases and coordinating subcontractors.
- Responsible for the design, construction and installation of all custom amenities requested by the client.

Education and Relevant Training:

Bachelor of Arts in Industrial Design From The Art Institute of Colorado (September 2007)

Completed 16 hours of **Certified CADWorx Plant Professional** Training Through ECE Design (2012-2014)

Completed **PEC SafeLandUSA** Training in Westminster, Colorado (January 2014)

Areas of Expertise:

-Drafting & Interpretation of Oil & Gas P&IDs
-Pump and Compressor Skid Layout & Design
-Skid Steel Structure Layout & Design
-CAD Production Drawings for Manufacture
-CADWorx Spec Editor

-Pressure Vessel, Heat Exchanger, Tank & Pump Modeling
-Balance of Plant Piping Layout & Design
-Knowledge of Skid & Piping Manufacturing Techniques
-CADWorx Custom User Shape Creation
-CADWorx ISOGEN Program Manager and ISOGEN Setup

Computer Programs:

-Autodesk AutoCAD Design Suite 2015
-Autodesk 3D Studio Max 2015
-Navisworks 2014
-Mental Ray Rendering 2015

-CADWorx Plant Professional 2014
-CADWorx Spec Editor 2014
-CADWorx Equipment 2014
-CADWorx P&ID 2014

-Adobe Photoshop 2015
-Adobe Illustrator 2015
-Adobe Premier Pro 2015
-Microsoft Office 2015