

Anthony (Tony) Creighton

Senior Designer

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SUMMARY

Highly experienced Mechanical Piping and Equipment Senior Designer across multiple industries. His detail-oriented approach to field work is incredibly valuable to clients while designing and installing process equipment and piping upgrades. Fluent in multiple CAD software packages and with the entire 3D scanning and modeling integration workflows using the Faro ecosystem.

HIGHLIGHTED SKILLS

- Pipe Design
- Equipment Design and Arrangement
- Process Development
- Process Improvement
- 3D Laser Scanning & Modeling
- Construction Management
- Autocad, Plant 3D, Inventor
- 30 years Field Dimensioning

EXPERIENCE

11/2024-PRESENT [Senior Designer, Projex Consultants / Heyburn, ID](#)

- Design of equipment supports for startup French Fry processing facility
- Field data collection and design for multiple maintenance and capital upgrade projects for multiple client project engineers: Bagger Replacements, Redesign of flooring & floor drain systems, new packaging line installation, cooking oil distribution piping design
- Construction oversight of process equipment replacement projects, ensuring quality control and safety

[Piping Design Lead, Valdes Engineering/Lombard, IL](#)

10/2022 – 10/2024

- Construction management and design support for all piping and equipment during construction of a new melt shop in Calvert Alabama.
- Design of natural gas piping system for large municipality from utility to end users.
- Replacement of Screen Pack Changer for plastic extruder and support piping systems including, pellet water, hot oil, hydraulic, and instrument air.
- Upgrade of an existing 200 GPM RO rental system to a 400 GPM permanent skid mounted system that included Bag and Cartridge Filters, RO, Degasification and CEDI systems for 3 combined cycle power plants.
- CAD software: AutoCAD Plant 3D, CADWorx, CloudWorx, and NavisWorks Manage
- Relocation and replacement of (6) 8"x10" PSV's from the switch deck to the cutting deck for the coke unit at a large petroleum plant.
Redesign and routing of 10" natural gas line due to failure of underground system. The pipe was rerouted into the pipe racks from the utility to the end user for a large ethylene manufacturer

7/2020 - 10/2022 [Piping Design Lead, Alliance Engineering /Mobile, AL](#)

- Phase 3 Reactor train design and pipe rack addition for chemical water treatment plant.
- Showers design to prevent scale build up for steel mill.
- Redesign of sulfuric acid system from bleach plant to paper machine floor for board mill.
- Addition of food additive process area including (4) process holding tanks, (3) process pressure vessels, (1) mixer, (6) centrifugal pumps, (1) 98% sulfuric acid holding tank and all piping for GMP facility.

- CAD software: AutoCAD Plant 3D, Autodesk Inventor, Autodesk ReCAP, NavisWorks Manage and FARO SCENE

5/2018 -7/2020

Piping Design Lead , Jedson Engineering/ Mobile, AL

- Prepared short & long term capital project plans and managed project execution.
- Engaged key internal & external stakeholders and managed implementation of the odor pollution control project portfolio to eliminate community odor complaints.
- Implemented project and start-up processes to achieve 100% on-time start-ups.

8/2018 -4/2019

Senior Piping Designer, Burrow Global/Recon/Lake Charles,LA

- Assisted in start-up of 400-acre Ethane Cracker. Areas included: temporary boiler piping, preheater piping, and rework of distillation tower to stripper piping, and various small maintenance projects to enhance the systems process.
- CAD software: AutoCAD Plant 3D and NavisWorks Simulate

5/2015 -7/2018

Piping Design Lead, Jedson Engineering/Mobile, AL

- Scanned and redesigned all safety relief systems for auto air-conditioning refrigerant facility.
- Distillation column redesign including reboiler, condenser and reflux drum to produce a propellant for refrigeration and air conditioning applications.
- CAD software: AutoCAD Plant 3D, Autodesk ReCAP, NavisWorks Manage and FARO SCENE

2/2014 -5/2015

Senior Piping Designer, Tessenderio Kerley Services/Carlsbad, NM

- Mechanical piping designer for the mining, petrochemical and chemical industries.
- Project requirements to design process plants for sulfur recovery for fertilizer production. Responsibilities included supervision of small 4 – 5 team of designers to create general arrangements, plans, sections, and extract ISOs from the model. Design Review meetings, document finalization, discipline and squad checks are also requirements.
- Cad platforms: AutoCAD, Bentley AutoPlant, NavisWorks

5/2013 -1/2014

Piping Designer VI, Ford Bacon Davis/Monroe,LA

- Project Design Lead for expansion that includes equipment, piping, and machine disciplines for Zeolite manufacture.
- Project requires equipment arrangement and piping design, weekly client model review meetings, and coordination between multiple disciplines. Phase 1 of the project is implemented in Bentley AutoPlant, Phase 2 in Plant 3D.
- Cad platforms: AutoCAD, Bentley AutoPlant, NavisWorks Simulate and Autodesk Plant 3D.

5/2013 -5/2013

Senior Piping Designer, Tessenderio Kerley Services/Carlsbad, NM

- Mechanical piping designer for the mining petrochemical and chemical industries.
- Project requirements to design process plants for sulfur recovery for fertilizer production. Responsibilities are to create drawings such as general arrangements, plans, sections, and ISOs are extracted from model. Design Review meetings, document finalization.
- Cad platforms: AutoCAD, Bentley AutoPlant, NavisWorks Simulate

2012 -2013

Senior Piping Designer, Jedson Engineering/Daphne,AL

- Mechanical piping design for Pulp and Paper, industrial, and chemical process plants.
- Project requirements included field walk down and documentation at various mills and plants, piping design and drafting, Plant and General Arrangement layout.
- Cad platforms: AutoCAD, Microstation, AutoCAD Plant 3D and NavisWorks Simulate

2009 - 2012

Senior Piping Designer, MESA Associates/Chattanooga, TN

- Mechanical piping design for power generation plants including Nuclear, Hydroelectric, and Fossil.
- Project requirements included field walk down and documentation, piping design and drafting, Plant and General Arrangement layout, attendance of all Customer Design Review meetings, and finalization of all documentation related to the project.
- Cad platforms: AutoCAD, Microstation, Inventor, SolidWorks, ProE, and AutoPlant.

2008 - 2009

Piping Designer, KEY Engineering Inc/Decatur, AL

- Mechanical piping and process design for industrial and chemical process plants.
- Project requirements included field walk down and documentation, piping design and drafting, and finalization of all documentation related to the project.
- Cad platforms: AutoCAD, Inventor, and CadWorx.

2006 – 2008

Piping Designer, EES/ Chattanooga, TN

- Mechanical piping design for power generation plants including Nuclear, Combined Cycle, and Fossil.
- Project requirements included field walk down and documentation, piping and pipe support design and drafting, and finalization of all documentation related to the project including Design and Engineering Change Notices.
- Cad platforms: AutoCAD and Bentley AutoPlant.

2005-2006

Contract Position

- TriMech, Durham, North Carolina - Position: Mechanical Designer
- Cad platforms: AutoCAD and SolidWorks

2002 - 2005

Piping Designer/CAD Administrator, Ford Meter Box Inc/Pell City, AL

- Promoted from Product Technician to CAD Administrator after 10 months of employment.
- Engineering support, training, and administration for all CAD related software.
- Creation and revision of product models and drawings, product testing, procurement of test data.
- Internal auditor for ISO 9001-2000 Series Standards.
- Cad platforms: AutoCAD and SolidWorks

1999 – 2002

Piping Designer, Nordson/Dawsonville, GA

- Mechanical piping and process design for industrial and chemical process plants.
- Project requirements included field walk down and documentation, piping design and drafting, and finalization of all documentation related to the project
- Cad platforms: AutoCAD, Inventor, and CadWorx.

1998 - 1999

Contract Position

- Advanced Manufacturing, Decatur, Alabama - Position: Mechanical Drafter/Designer
- Watkins Engineering, Tallahassee, Florida - Position: Piping Draftsman
- Taylor Warton, Theodore Alabama - Position: Piping Draftsman
- Cad platforms: AutoCAD and SolidWorks

1996 - 1997

[Draftsman, Motion Industries](#)/Mobile,AL

- Responsible for all CAD drawings for integrated systems department.
- Coordinated all aspects of material handling related projects.
- Cad platforms: AutoCAD

EDUCATION

Certified SolidWorks Professional, SolidWorks World

Motion Industries School of Mechanical Power, Birmingham, Alabama

Matthew's Conveyor College, Danville, Kentucky

Major: Associate Degree Drafting and CAD Technologies, Southeast College of Technology, Mobile Alabama

ACTIVITIES

Fishing, hunting, drone piloting, travel