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Position: Lead Piping Designer, Piping Project Lead, Project Manager, Discipline Manager

Skills: Lead Piping Designer/Struct Designer, 3D modeler, AutoCad, AutoPlant, CADWorx, CADPipe, Bentley, Rebis

Education:

University of Houston - Computer Programming, 'C' Language, AutoCAD, MicroStation
Executrain - SQL Database, Advanced Access

Instructor:

AutoCad - University of Houston, 1984, taught 2 semesters
Rebis, CADWorx - Multiple employers, teaching 3D modeling to new employees

Mr. Rogers has more than 45 years supporting engineering projects with management, design, and drafting responsibilities in the petrochemical, marine and food processing industries. During these years, he has held positions that have included Design CAD Manager, Engineering Manager, Lead Piping Designer, Senior Piping Designer, Senior CAD Specialists, and Senior Structural/Mechanical Designer.

As a Manager, he has been responsible for supervision of designers and drafters which included design, checking, estimating, scheduling, budget, client contact and quality control of design/drafting projects. Trained drafting personnel on the use of CAD and Client standards. Managed CAD systems to include training, systems development, networking, backup procedures, and CAD standards.

As a Designer, he has 40 years' experience as a senior piping designer, 10 years of structural design experience doing 3D for 25 years. Work has included developing complex plant layouts, generating design and construction drawings, field as-builts, creation of 3D design models, generation of CAD piping specifications, and project construction supervision. He has used CAD since 1982 and is a user of AutoCAD, Intergraph/MicroStation.

Employment History:

The Industrial Company, The Woodlands, Texas – Quality Control Coordinator **3/19 – 05/08/20**
Project quality control support, projects involved field walk downs for Oil & Gas facilities. Support for all engineering and construction crafts reviewing construction documentation including drawings, specifications, industry standards, client & company construction standards & procedures. Collection of turnover documentation and generate support documents and procedures. Develop project dash boards in Smart Sheet software attached to multiple databases. Assigned as Quality Engineer to new plastics plant being built in Gregory, Texas.

Chevron, Midland, Texas – Project Piping Lead (Piping Designer, Quality Checker) **9/15 – 12/15/18**
Project Piping Lead, projects involved field walk downs of P&ID's within Oil & Gas collection facilities. Piping department Checker for multiple projects including a small Oil & Gas refinery.

W.S. Nelson, Houston, Texas – Senior Mechanical (Structural/Piping) Designer, **2/14 – 10/15/15**
Project Piping Lead, project involved preliminary design for oil & gas dewatering plant for Shell Oil which 3D design was done in AutoPlant. Supervised piping design team which provided construction plans and isometrics. Also worked as senior mechanical designer for multiple projects. One project involved preliminary design for oil & gas plant for which 3D design was done in AutoPlant. Second project was also for client but was an offshore platform which 3D design was done in PDMS. I checked construction iso's for the project. Worked with minimal supervision and provided 3D model Quality review and checking. (AutoCAD, AutoPlant, PDMS, Navisworks)

W.S. Nelson, New Orleans, LA – Senior Mechanical (Structural/Piping) Designer, **12/12 – 2/14**
Project involved process and utility piping design for copper and gold mining facilities in Indonesia. Reverse modeled other disciplines designs from construction drawings (civil, structural, electrical). Provided piping plans and construction iso's for multiple projects. Worked with minimal supervision and provided 3D model design work and construction drawings. (AutoCAD, Bentley AutoPlant)

Gov Ind Development, Corpus Christi, Tx – Senior Structural/Piping Designer, **8/12 – 12/12**
Project includes turnaround work for an oil/gas refinery in Dumas Texas. Provided field work and construction drawings for multiple projects. Worked with minimal supervision and provided 3D model design work and field as-builts of work in CADWorx.

Saulsbury Industries, Inc. Houston, Tx – Mechanical Department Manager, **5/12 – 08/12**
Design supervision of piping and structural team, checking, model review, and Iso control. Departmental support for estimating, construction, procurement, and proposals. 3D design models for structural and piping CADWorx with AutoCAD.

Burrow Global, Inc. Houston, Tx – Project Senior Piping Lead/Struct. Designer, **11/11 – 04//12**
CADWorx, AutoCAD – Work included design supervision of project team, checking, model review, and Iso control. Departmental support for estimating, construction, procurement, and proposals. 3D design models for structural and piping

Mustang Engineering, Bakersfield **01/11 – 11/11**
Senior Piping Designer/Senior Structural Designer (CADWorx, AutoCAD) – Work included field as-builts of existing systems and design/draft new systems for construction. Created a 3D structural and pipe design model.

HKA Enterprises - Sr Piping Project Lead / Sr Piping Designer, **08/10 - 12/10**
Work included supervision of field as-built crew of 4, supervision of 4 CADD in off-site location doing 3D modeling in AutoPlant from isometric sketches generated by field crew. Field crew designed piping systems and sketched design for modelers for structural and piping. Checked piping isometrics & provided construction support. Generated bulk bill of material from isometrics for SAP comparison.

G.A.S. Unlimited, Sugarland - Senior Piping Designer, Contract **9/09 – 11/09**
Work included building as-built CADWorx 3D model of existing structural & piping designs. CAD systems administrator – setup & installation of software, generation of CAD Piping Specs, automation of 2D piping plans and equipment layouts from 3D Model, and extraction of Iso's using ISOGEN.

Mustang Engineering, LaPorte/Katy - Senior Piping/Structural Designer, Direct **11/07 – 8/09**
CADWorx, AutoCad) – Work included field as-builts of existing systems and design/draft of new systems. 3D design models for structural and piping. Projects – Big West, Valero, Meta, and Celanese.

Foster Wheeler, USA - Senior CAD Applications Engineering Specialists, Direct **03/07 – 11/07**
Acted as a primary contact person for CAD project support. Interfaces with the various design groups for Plant Design project creation, drawing creation, drawing extraction and model review. Troubleshoots and solves day-to-day problems related to Computer Aided Drafting and Design/Plant Design applications. SharePoint Developer for in-house Intranet solution. (PDS, MicroStation, AutoCad)

Primary responsibility to support all disciplines for assigned project. Performed audits of project deliverables for all disciplines. Provided methods and procedures to meet project deliverable goals which included use of reference files, writing scripts, and writing lisp routines. Supported CAD production as needed by discipline.

Shaw, Stone & Webster **8/06 - 01/07**
Principal Piping Designer – Developed Q&A Web sites for multiple piping projects. Involved creating Web pages with real time database connections to Oracle and Access databases.

Principal Piping Designer – Boiler Feed Water unit conversion. Work done using as-builts and photographs. Used Rebis software and generated 3D piping design model and extracted construction iso's for job including Bill of Material. Also provided preliminary pipe support design.

S&B Engineering **02/06 - 08/06**
Senior Piping Designer - Created design and construction drawings for Gasoline plant for Enterprise Products in Gaines, Texas. Work included reading P&ID's and equipment drawings and designing systems for both De-Isobutanizer and Debutanizer units. Scope included plot plan development, equipment location, structural layouts, piping design modeling in 3D. Pipe design was done using AutoCad with Bentley AutoPlant. Extracted stress and construction iso's for final design. All structural, equipment and piping were done in 3D.

LoneStar Marine Shelters **11/05 - 02/06**
Design Drafting Manager, (contract)
Provided design drafting supervision for multiple offshore fabrication projects. Design included structural design & detailing for fabrication. Drawings included general arrangement and fabrication drawings for living quarters and helideck for offshore platforms. Managed project drafting production, design review, checking, created drafting standards and trained personnel.

NRG Manufacturing **08/05 - 11/05**
Design Drafting Manager, Project Manager (contract)
Provided design drafting services for multiple fabrication projects. Design included structural & piping for process skids for use in the oilfield. Drawings included general arrangement, design and detail drawings for fabrication shop. Managed project schedules, budgets, vendor contact, fabrication shop supervision, and client presentations.

University of Texas, Houston Medical Center **12/02 - 04/05**
Web Site Developer, Programmer
As a web site developer, performed the following functions for multiple departments, web site design, layout, graphic designer, site management, content editor, forms generator, hardware/software evaluations, internet research, database developer and customer service. Trained and supported 300 Web authors developing the University of Texas Medical Center Web site.

Equistar / Lyondell**05/00 - 11/00**Lead Web Designer for large Intranet Project.

Helped evaluate and establish standards and guidelines for implementing intranet which included over 200 independent departmental web sites including over 30 manufacturing plants. As designer performed the following functions for individual clients (departments): web site design and layout, graphic design, site management, content editor, Internet research, and client support. Web tools included Dream Weaver 2.0, Front Page 98 and 2000

Corporate Instructor for Front Page 98

Wrote instruction manual "Authoring to ION with FrontPage" for explaining corporate standards and guidelines. The manual also included detailed instructions on how to use Front Page 98 to "Author" web pages to the intranet. Classroom instruction included hands-on environment for 12 students, with goal of students authoring web pages within the class. Over the last 6 months I have trained 150 departmental personnel. The one day class was structured with first half day reviewing and studying standards and guidelines with explanations on the business uses of the intranet. The second half was hands on Front Page training with students developing their departmental homepage.

Web Applications Developer

Visited with multiple departments to evaluate how Intranet/Internet web solutions could solve existing business problems. Projects included a national construction project reporting problem. Created a web enabled solution to summarize 30 restricted construction project status reports in excel into a publicly viewable summary, automatically updated remotely by construction managers at their job sites.

Internet Plus - (Owner)**09/99 - 12/00**Web Site Developer

As a web site developer, performed the following functions for clients: project manager/scheduler, web site design, layout, graphic designer, site management, content editor, forms generator, hardware/software evaluations, internet research, database developer and customer service.

Millennium Project Technologies, Inc. - Perm.**11/98 - 09/99**Design/Drafting Manager - (AutoCad)

Oil/Gas Plant, Beaumont, Texas. Field As-built of plant which included lease plots, detailed piping drawings, constructions isometrics and construction supervision.

Multiple Offshore Platforms, Gulf of Mexico - Field As-built of oil production facility's which included structural, piping, mechanical drawings and construction isometrics.

Internet Plus - (Owner)**03/98 - 11/98**Senior Piping Designer - Kodiak Industries, Inc.

Oil/Gas production skids for multiple clients. Provided design and drafting functions and detailed structural and piping drawings, construction isometrics, bill's of material and construction supervision.

Jacobs Engineering Group Inc. - Contract**03/97 - 03/98**

Lead Piping Designer - Poly Silicon Plant, Albemarle Corp., Pasadena, Texas. Project included field as-built, generating survey information using transit, and locating tie-in point for new construction.

Responsibilities include process unit layout and design, generate design drawings to include unit plot plans, piping plans, piping sections, and construction ISOs. (AutoCAD using CadPIPE).

Gulf Interstate Engineering - Contract**06/95 - 02/97**

Senior Piping Designer - Pipeline transfer tunnel under Houston Ship Channel.

Work included 3D piping model from multiple land lease plot drawings, additional detail from piping construction drawings, and update process flow drawings. Created composite 3D model from drawings going back to 1930's.

Kvaerner, Earl & Wright, Inc. - Perm.**11/93 - 06/95**

CADD Manager - Managed design drafting department for multiple sub-sea pipeline and offshore platform projects. Disciplines included civil, process, electrical, mechanical, structural, piping, and instrumentation. Hired staff, scheduled and checked work, document control, and project meetings with clients. CAD software was AutoCAD. Clients were Agip Petroleum and Amoco Oil Corp. (Civil drawings included sub sea plot plans; work included plotting of field data, topo information, plotting pipeline around sub sea structures, and shipping right of way.)

Foster Wheeler, Inc. - Contract**03/93 - 11/93**

Lead Piping Designer - Multiple projects for Lyondell Corporation, Pasadena, Texas.

Managed piping design and construction drawings for areas within project. Supervised designers and drafters, interfaced between multiple disciplines, scheduled and checked design/drafting production. Work included checking of existing systems and design/draft new systems for construction. Generated as-built 3D model using AutoCAD and Rebis (ProPipe) from construction ISO's, plans and sections. Provided quality control utilizing 3D construction model.

S&B Engineers & Constructors - Perm.**06/92 - 01/93**

Senior Piping Designer - Alkalization Plant, Shell Oil Corp., Pasadena, Texas. Project included field as-builts, generating survey information using transit, and locating tie-in point for new construction. Work included field as-builts of existing systems and design/draft new systems for construction. Generated plans, sections, construction ISOs, created 3D design model using AutoCAD and Rebis (ProPipe), and created P&IDs using Autotrol.

Dreco, Inc. - Contract**11/91 - 06/92**

Senior Structural/Mechanical Designer - Design and Detail for construction offshore drilling platform. Design included multiple lifts off barge with weight restrictions, calculation of weights, center of gravity for lifting, and assembly requirements for multiple lifts.

General Dynamics (Egypt) - Contract**07/91 - 11/91**

CAD Systems Engineer - M1/A1 Tank Plant, General Dynamics, Egypt. Establish CAD system for client which included installation, maintenance and networking of 30 computer workstations. Responsibilities included training, network procedures, managed designers and drafters, interfaced between multiple disciplines, and scheduled and checked design drafting production.

Texas Energy Corp. - Perm.**08/90 - 05/91**

CADD Manager - Managed CAD department for mechanical consulting firm. Responsibilities included training, establish network procedures, managed designers and drafters, interfaced between multiple disciplines, scheduled and checked design/drafting production. Project work included as-built architectural drawings for commercial hi-rise building. Included floor plans and details, electrical layout and details, plumbing and heating and air conditioning systems. (AutoCAD & MicroStation)

Technology Development Center, Inc. - Owner

1988 - 1990

Engineering Manager - Carbon Black Plant Expansion, Witco Corp., Ponca City, Oklahoma. Managed design drafting staff for plant expansion. Work included field as-builts of existing plant, plant plot plan, re-design of existing reactors, addition of 600 ft. product conveying system, instrument conversion of plant from hydraulic and pneumatic to PLC system, expansion of railroad car loading area, design and detail multiple structural platforms, and design of new shower facilities.
Chemicals Plant, Conoco Corp., Ponca City, Oklahoma. Work included field as-builts of existing process systems. Generated P&IDs using Intergraph and MicroStation.

CAD/CAM Resources - Owner

1982 - 1988

Engineering Manager - Providing design/drafting services to multiple clients using Autotrol.

Drafting Instructor – provided computer drafting instruction for two semesters for University of Houston.
Corporate Drafting Instructor - provided computer drafting instruction for private companies. Included Fish Engineering and G.H. Bettis Corporation.

Rogers Design & Drafting Service - Owner

1981 - 1982

Providing design/drafting services to multiple clients in Houston area using AutoCad and Autotrol.

Brown & Root

1978 - 1981

Entry Level Civil/Structural Draftsman

Provided detail drawings civil projects to include plans, sections and profiles. As a structural draftsman provided detail drawings for foundations including bill of materials and rebar take-offs.