

## Timothy L. Jay

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### Sr. Civil Structural Designer

Seeking a position where 30 plus years of mechanical piping and structural engineering design experience will add value to day-in and day-out operations. My years of design experience and project management can be used for many different assignments, from working up estimates to general layouts and generating construction drawings. All of these tools have saved companies time and money.

### Abilities Embrace

- \* Mechanical design planning, with the ability to read and produce working drawings.
- \* Excellent technical and personal writing skills. Able to communicate effectively with personnel and clientele at all professional levels.
- \* Able to communicate and work well with the public.
- \* Experience in working with outside equipment vendors and other suppliers.
- \* Experience with limit switches and software that will operate equipment.
- \* Experience working with automated gate, butterfly, and knife valves.
- \* Working experience with pressure control value hydraulic systems.
- \* Excellent problem solving skills.
- \* Working with and maintaining drawing file systems
- \* Working experience with a plant wide system called SAP.

### Professional Experience

Quality Execution, Inc. Mt Vernon, In

02-26-2014 TO Present

#### Sr. Civil Structural Piping Designer

Work consisted of mostly pipe supports, pipe bridge design and structural vessel supports. Most of this work was for SABIC Innovative Plastics.

The design packages were for contractors to use for bid and installation.

- Expertise in the use of AutoCad 2018
- 24" aeration feed line pipe supports replacement at Waste Water Treatment plant
- 2014 Delta project expansion in VALOX Resin III
- ULTEM 2016 U1 expansion
- LEXAN Resin II chiller RCM Upgrade/Replacement
- LEXAN Boiler House I Riley Boiler Stack Outage Cover
- LEXAN Boiler House II Holman Boiler Stack Outage Cover
- LEXAN BPA III Cooler 3110A, B and 3210A, B Upgrade/Replacement

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Frontier-Kemper Lake Shore. Evansville, In

08-30-2010 TO 10-29-2013

**Sr. Civil Structural/Mechanical Designer**

Duties have been to design and produce detail fabrication drawings for all projects that I Was involved with. Along with producing detailed bill of material for each project, and to Follow through with filling out purchase orders for project materials for each one of the designs.

- Updated to operating Autodesk 3D Inventor 2013.
- 45 ton per hour vertical belt conveyor for mucking underground mines.
- 3D moduling on shaft steel systems for 40 ton service hoist at Sugar Camp Mine.
- Shaft steel design for personnel elevator systems for Federal #2 maine, Advantage Mine and Pleasant hill mine in West Virginia.

PROFESSIONAL CONSULTANTS INC. Evansville, In 03-15-2006 TO 04-09-2009

**Lead Mechanical Designer and Project Manager**

Duties were to write proposals, lead projects and account for financial budgets, as well as a Lead Mechanical designer for the machine design group. I was responsible for checking and overseeing final design drawings.

- Graduated to the use of AutoCad 2009
- Updated to operating Autodesk 3D Inventor 2007
- Capacity increase project at Century Aluminum
- Roll Crusher Project at Century Aluminum
- Roll polisher Project at AK Steel
- Redesign of the hydraulic system on the landsdale crane
- Upgraded the removal and install procedures

EURONIQUE INC. ELBERFELD, In

02-15-2002 TO 03-21-06

**CNC programming Casework Designer and Project Manager**

Cabinet design and layout as well as CNC programming for programmable router. Also design of commercial store fixtures and project scheduling as well as product delivery dates.

- Genises nesting programs and the operation of router.
- Lead casework designer for all of Huck's convient stores.

PROJECT ASSOCIATES, INC. Evansville, In

08-21-1997 TO 02-15-2002

**Mechanical Designer**

Mechanical and piping designer with Mirostation SE and AUTOCAD release 2000i. Mechanical work consisted of process piping design with P&IDs and General Arrangements inside the plant at Alcoa Warrick Operations.

- The Remodel of louver ventallation door system at building 57
- Underground concrete trench for mechanical piping system for tank farm for building 57
- Bathroom and shower house remodel for building 67
- Mechanical water tight seal for wash tanks in finishin

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AMERICAN SYNTHETIC RUBBER, Louisville, Ky 07-10-1995 TO 08-21-1997

**Mechanical Piping Designer**

Mechanical and process piping design with AUTOCAD release 12 for the new separate systems. This design work was for a bid and construction package and consisted of generating P&ID, plans, elevations and section along with spool drawings.

- Lead on site manager for three other designers.

DARAMIC INC. Owensboro, Ky 11-25-1994 TO 07-10-1995

**Mechanical Piping Designer**

Mechanical Piping designer working with P&IDs, Spool Drawings, General Arrangements, and Piping Isometrics.

- On site lead piping designer for the extractor 4 project.

R.T. PATTERSON, INC. Evansville, In 09-15-1993 TO 01-22-1994

**Mechanical Designer**

Mechanical design and AutoCAD operations for number 3 Ingot pusher furnace. Work performed was of steel design drawings of the outer shell of the furnace and of the door locking system.

- Structural Steel drafting and design of all shell parts for the furnace.

MOORE AND ASSOCIATES Mt, Vernon, In 08-03-1992 TO 09-14-1993

**Mechanical and Structural Steel Designer**

Mechanical piping and drafting designer. A variety of Chemical and gas piping jobs were done for clients such as Farm Bureau CO-OP gas refinery, SABIC Plastics and GAF of Mt. Vernon, In.

- Structural Steel safety shower tower at BPA Three.
- Piping plan for safety shower tower for BPA Three.

CONTRACT BASIS Evansville, In 10-10-1989 TO 08-03-1992

**Structural Steel Drafter**

Daily operation of AutoCAD for architectural, structural and industrial designs. Contact with both general contractors and clients at Bristol-Myers Squibb, Co., SABIC Plastics and St Mary's Medical Center.

- Drafting of structural steel plans and details along with drafting of architectural wall sections for M.O.B. West Medical office building at St Mary's Hospital.

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EMPIRE CONTRACTORS, INC. Evansville, In 05-08-1987 TO 10-21-1989

## **Lead Designer**

In charge of all drafting design. Contact with clientele to obtain design information for proposals, and to produce working detail construction packages.

- Plant layout and plant building design of the Rexam Plastic plant on Kansas Road Evansville, In
- Remodel of Western Ribeye restaurant on North Boeke Ave. Evansville, In

## **Education**

CENTRAL HIGH SCHOOL 1981 EVANSVILLE, IN

Maintained a 3.5 GPA and obtained a certification in Sheet metal layout. Studies include a strong Emphasis in drafting, and metal stamping, material planning and algebra

ADDITIONAL EDUCATION-1983 INDIANA STATE UNIVERSITY TERRE HAUTE, IN  
Associate's Degree in mechanical design and construction management

ADDITIONAL EDUCATION-1989 NORTH HIGH SCHOOL EVANSVILLE, IN  
9 week certification course VERSACAD

ADDITIONAL EDUCATION-1990, 1994, 1999 - IVY TECH EVANSVILLE, IN.  
12 week certification course AUTOCAD RELEASE #10 #11 #12

2008 3D INVERTOR TRAINNING – 2007  
Hagerman & Company, Inc, Brentwood, Tn.