

PATRICK E. CONLEY

patrick@patrick-conley.com

Address:

1838 Basket Oak Drive
St. Charles, MO 63303
(314)-960-7196

Summary:

Exceptionally motivated and innovative mechanical engineering professional with a diverse skill set and a wide range of experience. Teamwork oriented, rapid learner and adept at finding solutions to challenging problems.

Education:

University of Missouri-Columbia

Columbia, MO

Bachelor of Science: Mechanical & Aerospace Engineering; Aerospace Emphasis
Graduation: May 2009, GPA 3.432 of a 4.0

Experience:

URS Washington Division

St. Louis, MO

May 2006 – Present

Mechanical Engineering Intern III; Technical Intern I

General Experience

- Responsible for assisting in Mechanical, Process, Electrical, Piping, Structural, and Architectural project aspects under the supervision and guidance of Lead Project Engineer and Supervising Professional Engineers.
- Utilized technical abilities to perform CADD operations in both AutoCAD and Microstation software packages.
- Assisted in assuring quality and completeness of engineering design work.
- Experience working on large scale consultant projects with Anheuser-Busch, Monsanto, and ConocoPhillips.
- Created and edited P&ID's, Piping Module drawings, Electrical single-line drawings, and various Structural/Civil drawings and sketches to meet specifications of supervisors and clients.
- Gained a vast understanding of the interconnections between engineering disciplines and how simultaneous design processes relate to overall project management.
- Worked with project engineer and colleagues to meet important deadlines and reviews.
- Gained real world experience and understanding of business economics including overhead costs, revenue, and profit.
- Learned the procedure of creating bid packages, transmittal letters, bulletins and addendums.
- Experienced key lessons in teamwork and communication.
- Performed additional tasks in computer hardware upgrades and software installation, as well as network and server maintenance operations as local administrator assistant.

ConocoPhillips, Wood River, IL Refinery Projects:

Hydrocracker Flasher Unit Turnaround Project

- Took lead role in Process & Instrumentation Diagram Update Project involving the creation and modification of over 50 P&IDs. This required dispatching CAD work to CAD designers, back checking CAD work, creating and maintaining drawing lists, and working with engineering drawing manager to return P&IDs to the client following specified protocols.
- Created 'Work Package' for replacement of 3 block valves along pipe lines, including creating P&ID, scope of work description, isometric pipe line drawing, bill of materials, and specifying all parts used via engineering piping calculations.
- Performed AutoCAD operators to create heat exchanger and tube bundle work packages.
- Assisted in calculating pressure drops along vital sections of piping.
- Worked in collaboration with process engineers to create documentation of transmitter equipment specifications.

Fluid Catalytic Cracking Unit Turnaround Project

- Performed AutoCAD operations to develop work packages for mechanical equipment, manhole and junction box vent details, foundation demolition, and equipment relocation for use in construction efforts.
- Assisted in field engineering efforts to verify P&ID's, piping locations, existing equipment information, and to create photographic documentation to be used in design work.
- Aided in developing CADD standards for project.

Anheuser Busch Projects:

St. Louis, MO Brewery, Stockhouse 1, 7, 9 Demolition Project

- Responsible for creating, revising, plotting, and organizing construction and demolition drawings of piping schematics, P&ID's, electrical control loops, and structural diagrams.
- Played a lead role in designing a new facility for hop storage including structural design work, logistical design work, and cost analysis.
- Assisted in numerous field visits to verify existing building locations and geometries, electrical line placements.
- Updated background drawings of brewery layout based on field engineering measurements.

St. Louis Brewery, Stockhouse 13 Pipe Relocation Project

- Performed Microstation CADD operations to update and annotate equipment and piping module drawings. Assisted in field visits to obtain photographic documentation.
- Worked with Supervising Professional Engineer to create photographic demolition drawings and P&ID's for relocating pipes.

Baldwinsville, NY Brewery, Finishing Modernization Project

- Trained new employees in performing CADD operations for creating and editing photo demolition drawings in Microstation.
- Worked under Supervising Professional Engineer to create CADD construction and demolition drawings of piping schematics, P&ID's, and structural diagrams.

Los Angeles, CA Brewery, Stockhouse 6 Cellar Redesign Project

- Participated in meetings with Lead Project Engineer, Supervising Professional Engineer, and Piping Designers in an effort to minimize pipe stress in complicated design with small cellar space.
- Worked under Supervising Professional Engineer to create CADD construction and demolition drawings of piping schematics, P&ID's, electrical control loops, and structural diagrams in Microstation.

Monsanto Projects:

Farmer City, IL Seed Corn Facility, Expansion Project

- Led a team in research efforts to obtain construction permits from local and national government agencies including the Federal Aviation Administration, Illinois Department of Natural Resources, Illinois Environmental Protection Agency, and the Illinois Historic Preservation Agency.
- Coordinated engineers to obtain the necessary design specifications requested to gain construction permits.

Panera Bread

St. Charles, MO

July 2003 – January 2005; June 2005 – August 2005

Sales associate; Food preparations; Cashier

- Consistently worked in a fast paced environment for long periods of time.
- Efficiently handled money and maintained customer satisfaction while upholding store sanitation and cleanliness.
- Developed time management and organizational skills.

US Cleaners

St. Peters, MO

January 2005 – May 2005

Sales associate; Cashier

- Worked both independently and in a team environment.
- Continuous communication and customer service relations in a high-stress environment.
- Handled money and upheld customer satisfaction; Prepared clothes for future customer pickup.

Computer/Technical Skills:

- AutoCAD, Microstation, Bentley Projectwise, Pro-E, SolidWorks, LabVIEW, MATLAB, Simulink, PLC Programming, MasterCAM, VisualDOC optimization, Adobe Photoshop, Adobe Professional, Microsoft Word, Excel, PowerPoint
- Windows XP and Vista Operating Systems, Microsoft Windows networking knowledge.
- Computer hardware and software installation and maintenance abilities.
- Works well with a team and individually.
- Exceptionally organized and motivated.

Honors, Activities & Organizations:

- Fundamentals of Engineering/Engineer in Training (FE/EIT) Certification
- Engineer's Club of St. Louis Member
- Pi Tau Sigma National Mechanical Engineering Honors Fraternity Member; Epsilon Chapter
- Dean's Honor Roll of the College of Engineering Fall Semester 2005; Fall Semester 2006; Fall Semester 2007; Winter Semester 2008
- Dean's High Honor Roll of the College of Engineering Winter Semester 2006; Fall Semester 2008; Winter Semester 2009
- Mr. & Mrs. John E. Scora Scholarship 2006-2007
- Engineer's Club of St. Louis, David & Sarah Greenberg Memorial Scholarship 2005-2006

References:

Available on request