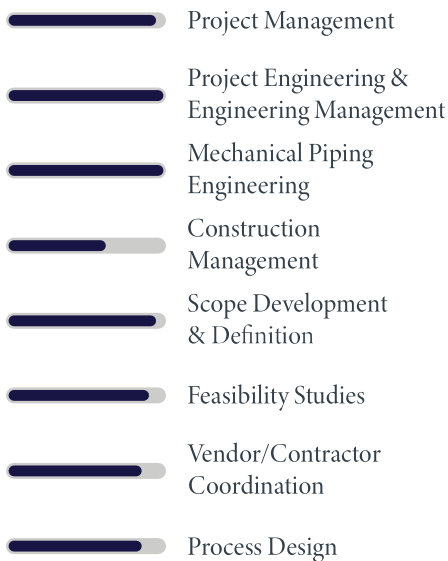




## Commitment

Projects are unique and challenging. I enjoy assembling high performing teams to match the execution approach to the project. After gathering client input, I will lead the team to an operable, maintainable, and constructable solution.

## Skills



## Prior Project & Client References

David Bryson | Eastman Chemical  
423-341-2190

Dave Mazzi | Danimer Scientific  
229-254-2522

Hatcher Logue | Nutrien  
706-469-1224

Rob Connelly | Olin Chemical  
706-513-0214

## Selected Projects/Experience

### Project Engineer of \$50M Chemical Retrofit Project

- Lead team of 40+ multidiscipline engineers, designers and procurement agents in large retrofit for Eastman Chemical in Kingsport, TN
- Supported construction from office with RFI responses
- Notable Project Engineer Roles: Detailed Design of Overhead vapor treatment of API Separators (\$15M TIC), Detailed Design of \$20M Bleach Facility in Upstate New York
- Notable Project Management Roles: 10+ Front End Engineering/Estimate Projects, 8+ Detailed Design projects ranging from \$1M to \$5M TIC

### Mechanical Engineering / Piping Design Leader

- Department Improvements: Hired 20 A+ players for the department during rapid growth of Atlanta Office, Drove all designers to migrate to 3D design, Conducted 2 yr (voluntary) training program for personnel
- Office Improvements: Support engineering manager in coordination & management of structural, electrical, instrumentation, & process engineering departments
- Notable ME/Piping Roles: Lead Mechanical Engineer & Lead Piping Designer for \$20M paper project, \$13M thermal fluid plant, \$20M Bleach Facility

### Senior Mechanical Engineer

- Duties: leading HVAC and mechanical process designs, assisting lead chemical process engineers, construction cost estimates, feasibility studies, energy conservation studies, thermal stress analysis, coordinate with design engineers from other disciplines

### Senior Project Engineer

- Duties: development of piping and instrumentation diagrams (P&IDs), sizing process equipment, sizing/specifying of process piping, designing process control schemes, estimating the cost of detailed design and construction, requesting capital funds, managing detailed design of engineering disciplines, and managing construction
- 20 projects were managed, 20 are successfully operating, 18 were delivered on budget, and 19 were delivered on schedule
- Systems modified: rotoformer scrubber system, river water downflow filtration, prill cooler dehumidifiers, sulfuric acid for demineralized water, boiler feed water, oil filtration from natural gas, rotoformer cooling, chilled water, Urea crystal melting, Urea reactor level control, UAN dissolve, gas turbine online cleaning

### Mechanical Design Engineer

- Duties: leading HVAC and mechanical process designs, assisting lead chemical process engineers, construction cost estimates, feasibility studies, energy conservation studies, thermal stress analysis, coordinate with design engineers from other disciplines

## Education

### Georgia Institute of Technology

1996-2001 | Atlanta, GA

Bachelor of Science, Mechanical Engineering (3.0 GPA)

President of ASHRAE Student Chapter

Coop Student at McKenney's, Inc. in Atlanta, GA and Charlotte, NC.

## Selected Training

Certified Myers-Brigg Practitioner (MBTI)

CII Construction & Engineering Benchmarking Associate

CII 10-10 Program, leading indicators of project performance

3D Multi-discipline Design Workflow, (Instructor)

Many Piping and Mechanical Engineering Training Sessions (Instructor)

Large Chilled Water Systems (ITT Fluid Flow), Fossil Power Systems, Purified Water Systems / Micro & Ultra-Filtration

Boiler Feedwater Pump Basics

Industrial Fan Design, Triple Offset Valves, Boiler Feedwater Pumps

Triple offset valves (2 hour vendor training)

AFT Fathom/Arrow, eSILENTIA (Baker Risk), P6, All 3D Plant Design Software

## Selected Projects/Experience Continued

### Onsite Client Project Engineer – Pharmaceutical Projects

- Duties: process design of purified water system, engineering and construction cost estimating of multiple projects, managing detailed design, ordering material, managing construction

### Onsite Client Project Engineer – Polymer Resin Projects

- Duties: managing detailed design, construction management
- Systems modified: cooling belt flaker, hot oil supply, overhead condensers, resin filtration, truck unloading.

### Onsite Client Project Engineer – Monomer Projects

- Duties: development of engineering and construction cost estimates, management of detailed design, management of construction
- Systems modified: sulfur trioxide unloading, chloral-benzene-sulfonic-acid (CBSA) reaction, sulfone crystallization, prill cooling, extraction feed, near IR instrumentation, tank farms, crystallization, surge capacities

### Onsite Client Utility Engineer

- Duties: conducting a system wide chilled water study, managing small construction efforts, design and construction management of energy conservation projects, providing engineering support for the operation/maintenance of compressed air system, providing HVAC review of contracted design and construction.

### Power/Steam Process Engineer

- Duties: sizing power equipment and power piping, developing process control schemes, development of piping and instrumentation diagrams, development of equipment datasheets, review of contractor/fabricator shop drawings, writing process descriptions
- Systems designed: Closed Cooling Water, Generator Hydrogen, Nitrogen Injection, Compressed Air, Waste Water Treatment
- Projects: Urquhart Re-powering Project for SCE&G in Beech Island, SC, Jasper Power Project for SCE&G in Jasper County, SC

## Projects Executed With:

