



# Austin Abbott



## Process Engineering Consultant

785-330-5150

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### TOP SKILLS

- P&ID & PFD Development
- Relief Valve Sizing
- Technical Writing
- PHA / PSM
- HYSYS
- HTRI

### PROFESSIONAL EXPERIENCE

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#### Process Engineering Consultant

*River City Engineering, Inc. / Lawrence, KS / Nov 2018 – Present*

Process Engineering Consultant for the Oil & Gas industry providing design and technical support for gas and liquids processing projects.

- Facilitated process optimization efforts for 6 chemical plants as a part of specialized optimization team. Liaised with engineering clients and personnel, simulated a plant data match using fluid properties in HYSYS to detect cost effective solutions while increasing recoveries.
- Collected and analyzed plant data to evaluate and track equipment performance and make recommendations on operating set-points to maximize recoveries.
- Performed hydraulic calculations in a PSV study for a 250 MMSCFD gas plant. Determined relief valves with excessive backpressures and inlet pressure drops.
- PSV study for an existing North Dakota gas plant. Sized PSV's, conducted hydraulics study, performed flare radiation calculations, developed datamatch simulation in Aspen HYSYS for fluid properties.
- Evaluated flare radiation for several gas processing facilities with numerous relief scenarios.
- Updated and issued operating procedures for an existing West Texas gas processing facility.
- Consulting engineer for an Enhanced Oil Recovery Pilot project in West Texas. Developed PFD/P&IDs, performed line sizing for new compressor station.
- Developed HIPPS(High Integrity Pressure Protection System) report to address possible inefficiencies and eliminate overpressure scenarios from the design basis for a gas processing facility.

### EDUCATION

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#### B.S. Chemical Engineering, 2019

*University of Kansas, Lawrence, KS*

#### B.A. Biochemistry, 2019

*University of Kansas, Lawrence, KS*

#### Bioengineering Research Certificate, 2019

*University of Kansas, Lawrence, KS*