

Natalia Holland

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SUMMARY

Chemical engineering professional with five years supporting process improvement, refinery operations, reliability initiatives, and industrial safety work. Analyzes operating data, equipment information, and field observations to identify yield, **energy efficiency**, reliability, and process performance opportunities. Develops practical engineering recommendations through process calculations, equipment modeling, thermodynamics, reaction engineering, and simulation concepts. Partners with operations, maintenance, and engineering groups during troubleshooting, hazard reviews, incident investigations, **management of change**, turnaround planning, and process documentation. Uses Excel and Microsoft Office for technical analysis, records, and recommendations grounded in operating conditions. Experience interpreting P&IDs and PFDs supports sound equipment and workflow evaluations. This background supports thoughtful decisions, clear communication, and dependable execution across industrial teams. Ready for continued growth in **refining operations** and **process engineering**.

EXPERIENCE

Process Engineer

April 2023 - Present

Midwest Process Technologies

Evansville, IN

Supports **process performance improvement**, reliability analysis, engineering recommendations, safety reviews, turnaround planning, and operating documentation. Works with operations and maintenance teams on technical issues affecting industrial process performance.

- Analyzed process data in Excel, identifying **reliability** and energy efficiency opportunities for operating teams.
- Developed equipment recommendations using process calculations, **operating observations**, and engineering records.
- Supported hazard reviews, management of change, and incident investigation documentation for process improvements.
- Troubleshoot **unit performance** with operations and maintenance teams, clarifying causes through **field observations**.
- Maintained **process documentation** and engineering records, giving operators dependable technical references.
- Reviewed equipment needs for turnaround planning, connecting execution requirements with operating priorities.

Junior Process Engineer

July 2021 - March 2023

Industrial Solutions Partners

Indianapolis, IN

Supported chemical processing studies, production improvement work, process simulation tasks, equipment evaluations, technical documentation, and safety focused collaboration. Built early career depth through supervised engineering analysis and field based review.

- Supported chemical processing studies, linking **engineering analysis** with production improvement recommendations.
- Prepared **technical documents** in **Excel**, organizing calculations and findings for engineering reviews.
- Interpreted P&IDs and PFDs during equipment evaluations, clarifying workflow and process connections.
- Assisted **process simulation** tasks, applying **engineering calculations** to chemical processing questions.
- Joined cross functional safety meetings, connecting field observations with operational performance discussions.
- Documented **engineering** findings from field reviews, preserving useful context for follow up decisions.

PROJECTS

Refinery Reliability Review 📅 2024

Reviewed process performance data, equipment information, and operating observations to identify reliability and energy efficiency opportunities. Findings supported practical engineering recommendations for operations and maintenance discussions.

Process Safety Documentation 📅 2023

Organized hazard review, management of change, incident investigation, and process documentation activities into clear engineering records. Work supported safer decisions and stronger operating continuity.

LEADERSHIP & AWARDS

- Recognized by engineering peers for clear process analysis and practical recommendations during operating reviews.
- Selected for expanded responsibility supporting hazard reviews, turnaround planning, and cross functional troubleshooting.
- Earned Process Safety Management Training recognition in 2024 through focused industrial safety development.

EDUCATION

Bachelor's Degree in Chemical Engineering

Purdue University GPA: 4.0

2021

West Lafayette, IN

Coursework: Thermodynamics, reaction engineering, process design, process safety

CERTIFICATIONS

- Process Safety Management Training 📅 2024
- Valid Driver's License 📅 2024

TECHNICAL SKILLS

- **Process Analysis:** Process monitoring, process calculations, process performance
- **Simulation Tools:** Process simulation, equipment modeling, engineering calculations
- **Engineering Software:** Microsoft Excel, Microsoft Office, spreadsheet analysis
- **Process Drawings:** P&ID interpretation, PFD interpretation, equipment workflows
- **Chemical Engineering:** Thermodynamics, reaction engineering, chemical processing
- **Process Safety:** Hazard evaluations, Process Hazard Analysis, Process Safety Management
- **Incident Management:** Incident investigations, causal review, investigation documentation
- **Change Control:** Management of change, process records, approval documentation
- **Reliability Operations:** Reliability improvement, unit performance, operating observations
- **Turnaround Planning:** Turnaround activities, equipment needs, execution requirements
- **Business Applications:** Microsoft Word, Microsoft Outlook, Microsoft PowerPoint

SKILLS

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|-----------------------|------------------------|----------------------------------|---------------------------|
| • Process improvement | • Thermodynamics | • Hazard evaluations | • Reliability improvement |
| • Troubleshooting | • Reaction engineering | • Incident investigations | • Energy efficiency |
| • Process simulation | • P&ID interpretation | • Process documentation | • Microsoft Office |
| • Equipment modeling | • PFD interpretation | • Cross functional collaboration | |

PROFESSIONAL AFFILIATIONS

- Chemical engineering peer group, sharing process analysis methods and field review lessons with colleagues.
- Operations and maintenance partnership, supporting open communication during troubleshooting and turnaround preparation.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST