

Niko Gibbs

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SUMMARY

Mechanical Project Engineer with 11 years supporting **chemical manufacturing, refining**, and process industry capital programs from concept through commissioning and startup. Leads concurrent mechanical projects involving piping systems, pumps, compressors, heat exchangers, **pressure vessels**, reactors, storage tanks, rotating equipment, and plant infrastructure. Develops project scopes, estimates, schedules, specifications, drawings, P&IDs, engineering packages, and turnover records that support sound funding, procurement, construction, and operating decisions. Coordinates operations, maintenance, process engineering, EHS, procurement, engineering firms, vendors, contractors, and field teams through design reviews and safe execution. Applies ASME, API, ANSI, NFPA, OSHA, PSM, MOC, HAZOP, and risk assessment practices. Brings practical judgment in reliability, troubleshooting, **root cause analysis**, energy performance, maintainability, schedule control, and startup readiness, with a steady focus on safe project delivery and plant productivity.

EXPERIENCE

Senior Mechanical Project Engineer

July 2023 - Present

Cypress Bay Chemicals

Baton Rouge, Louisiana

Leads concurrent chemical plant capital and expense programs from scope definition through startup. Owns mechanical design, project controls, contractor coordination, technical reviews, PSM readiness, and field execution for projects involving piping, pumps, heat exchangers, pressure equipment, and supporting infrastructure.

- Directed chemical plant projects through scope, design, procurement, **construction, commissioning**, and startup.
- Built **P&IDs**, specifications, estimates, schedules, and engineering packages supporting funding and **procurement** decisions.
- Led multidisciplinary design reviews that resolved constructability, operability, maintenance, and field execution risks.
- Applied PSM and MOC requirements, then closed HAZOP and risk review actions before commissioning.
- Managed **engineering firms**, vendors, and contractors against technical requirements, budgets, milestones, and safety expectations.
- Converted root cause findings into **rotating equipment** and piping reliability improvements for sustained plant performance.

Mechanical Project Engineer

March 2020 - June 2023

Gulf Meridian Refining

Lake Charles, Louisiana

Executed refinery **capital projects** across mechanical systems, **process equipment**, infrastructure, and shutdown work. Managed vendor data, integrated schedules, forecasts, layout reviews, turnover records, commissioning readiness, and stakeholder communication through construction and startup.

- Executed refinery projects for pumps, **compressors**, vessels, tanks, piping, and infrastructure through **startup**.
- Evaluated vendor data against ASME, API, ANSI, NFPA, OSHA, process conditions, and specifications.
- Used AutoCAD and **Navisworks** to resolve layout, piping interface, access, and construction constraints.
- Maintained forecasts and integrated schedules, communicating risks and priority decisions across plant stakeholders.
- Coordinated shutdown readiness through turnover records, testing, punch list closure, and **operations** alignment.
- Developed mechanical improvements that addressed reliability, energy use, production constraints, and maintainability.

Mechanical Engineer

June 2017 - February 2020

Pelican Process Materials

Geismar, Louisiana

Translated operating issues into scoped mechanical modifications for a chemical manufacturing site. Prepared calculations, specifications, drawings, bid evaluations, PSM documentation, field walkdowns, vendor responses, and commissioning support for process equipment and plant infrastructure.

- Translated operating problems into scoped projects for piping, exchangers, **pumps, reactors**, and vessels.
- Prepared calculations, specifications, **drawings**, bid evaluations, and **engineering documentation** for plant modifications.
- Performed field walkdowns and P&ID reviews that defined tie ins, isolation, access, and constructability.
- Supported **MOC** packages and **PSM** documentation, tracking technical actions through approval and implementation.
- Used inspection evidence and root cause methods to improve repair and replacement decisions for assets.
- Resolved vendor and contractor technical questions during installation and commissioning, protecting approved design intent.

Mechanical Engineer I

September 2015 - May 2017

Delta Industrial Engineering

New Orleans, Louisiana

Produced mechanical design deliverables for process industry projects under senior engineer review. Supported piping, pumps, vessels, equipment modifications, vendor coordination, cost estimating, **schedule** development, review actions, turnover documentation, and safe startup activities.

- Produced mechanical design deliverables for piping, pumps, vessels, and equipment modifications.
- Updated **P&IDs**, data sheets, specifications, and **AutoCAD** drawings from field information and approved changes.
- Reviewed vendor submittals against project specifications, documenting technical exceptions for resolution.

- Supported estimates and schedules through quantities, equipment information, and discipline deliverables.
- Documented **HAZOP**, design, and constructability actions, incorporating approved changes into engineering packages.
- Supported **commissioning** walkdowns, turnover documentation, punch list management, and safe **startup** activities.

PROJECTS

Refinery Equipment Reliability Program 📅 2023

Connected operations, maintenance, and engineering around recurring rotating equipment failures. Root cause findings guided mechanical improvements, repair decisions, and maintainability changes that supported steadier production and safer field work.

Chemical Plant Capital Delivery Portfolio 📅 2026

Partnered with process, EHS, procurement, contractors, and vendors across concurrent projects. Scope packages, P&IDs, estimates, schedules, reviews, MOC actions, and startup records kept delivery aligned with plant priorities.

LEADERSHIP & AWARDS

- Safety Leadership Recognition, Cypress Bay Chemicals, 2025
- Project Delivery Recognition, Gulf Meridian Refining, 2022
- Reliability Improvement Leadership, Pelican Process Materials, 2019

EDUCATION

Bachelor's Degree in Mechanical Engineering

2015

Louisiana State University GPA: 3.5

Baton Rouge, Louisiana

Coursework: Thermodynamics, Fluid Mechanics, Machine Design, Process Systems

CERTIFICATIONS

- Engineer Intern, Louisiana 📅 2016
- OSHA 30 Hour General Industry 📅 2022
- Professional Engineer Licensure Preparation 📅 2026

TECHNICAL SKILLS

- **Engineering Standards:** ASME, API, ANSI
- **Safety Standards:** NFPA, OSHA, PSM
- **Process Safety:** MOC, HAZOP, Risk Assessments
- **Mechanical Equipment:** Pumps, Compressors, Reactors
- **Pressure Equipment:** Pressure Vessels, Heat Exchangers, Storage Tanks
- **Piping Engineering:** Piping Systems, P&IDs, Tie Ins
- **Design Software:** AutoCAD, Navisworks, Microsoft Office
- **Project Controls:** Cost Estimates, Schedules, Forecasts
- **Project Delivery:** Procurement, Construction, Commissioning
- **Reliability Methods:** Root Cause Analysis, Troubleshooting, Maintenance
- **Technical Documents:** Specifications, Drawings, Engineering Packages
- **Field Execution:** Walkdowns, Turnover Records, Punch Lists

SKILLS

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|--------------------------|-----------------------------|----------------------|-----------------|
| • Capital Projects | • Process Safety Management | • API Standards | • AutoCAD |
| • Mechanical Engineering | • Management of Change | • Piping Design | • Navisworks |
| • Chemical Manufacturing | • HAZOP | • Rotating Equipment | • Commissioning |
| • Refining | • ASME Standards | • Pressure Vessels | |

PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers, professional member
- National Society of Professional Engineers, Louisiana member
- Louisiana engineering community, process safety and reliability participant

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST