

Felix Perry

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SUMMARY

Result-oriented Facilities Gas and Chemical Engineer with extensive experience in semiconductor operations. Skilled in the troubleshooting, maintenance, and engineering of chemical distribution systems. Expertise in project management leads to improved efficiency and high safety standards. Dedicated to optimizing operations by implementing data-driven solutions alongside cross-functional teams. Astute in performing reliability assessments, root cause analyses, and comprehensive documentation to bolster operational transparency. Committed to advancing facility performance while adhering to stringent purity and safety requirements in all initiatives.

EXPERIENCE

Gas and Chemical Engineer

June 2025 - Present

Innovative Chemical Solutions

Phoenix, AZ

Currently serving as a Gas and Chemical Engineer, overseeing systems that support key semiconductor manufacturing processes. Coordinate closely with cross-disciplinary teams to ensure high system reliability and safety standards throughout all operational phases.

- Led troubleshooting efforts on gas and chemical distribution systems, maintaining seamless operations critical to manufacturing productivity.
- Worked collaboratively with multiple departments to identify failures and implement corrective measures improving overall operational efficiency.
- Managed budget forecasts and schedules for numerous system upgrades, successfully achieving compliance with all industry safety and quality standards.
- Formulated and maintained essential documentation for operation and maintenance, elevating process integrity across engineering workflows.
- Executed Failure Mode Effects Analyses (FMEAs) alongside root cause investigations to systematically reduce identified risks and enhance performance metrics.
- Conducted training seminars on safety protocols for team members, instilling a strong focus on compliance within established frameworks.

Chemical Systems Technician

January 2024 - May 2025

Smart Manufacturing Corp.

Phoenix, AZ

Gained valuable experience as a Chemical Systems Technician, assisting in the engineering aspects of precision chemical applications within semiconductor contexts. Solidified teamwork dynamics in supporting high purity systems through hands-on roles.

- Assisted in installation and constant supervision of chemical piping systems, ensuring adherence to strict high purity guidelines crucial for semiconductor quality assurance.
- Actively contributed to projects aimed at boosting production efficacy, which led to notable enhancements in system dependability.
- Performed thorough evaluations of existing systems, pinpointing inefficiencies while reporting insights to senior engineers and suggesting actionable improvements.
- Crafted technical training materials for newly hired personnel concerning equipment safety and standard operation procedures, thus improving workplace readiness.
- Collaborated with suppliers to procure high-grade materials, successfully streamlining project timelines and enhancing engagement with external stakeholders.
- Participated in emergency response simulations, reinforcing team preparedness for critical incidents involving hazardous material handling or crises.

LEADERSHIP & AWARDS

- Dean's List (2024, 2025)

EDUCATION

Bachelor's Degree in Chemical Engineering

2025

University of Arizona GPA: 3.8

Tucson, AZ

Coursework: Fluid Mechanics, Thermodynamics, Material Science, Process Safety Management

CERTIFICATIONS

- Certified Chemical Engineer  2026

TECHNICAL SKILLS

- Engineering Tools:** AutoCAD, MATLAB, ANSYS
- Project Management Software:** Primavera P6, Microsoft Project, Asana
- Documentation Standards:** ISO 9001, GMP, Six Sigma

- **Technical Certification Bodies:** ABET, AIChE, NCEES
- **Process Design Techniques:** Aspen Plus, ChemCAD, HSC Chemistry
- **Analytical Testing Methods:** GC/MS, HPLC, TGA
- **Process Hazard Analysis:** HAZOP, LOPA, SIL Assessment
- **Material Compatibility:** Chemical Resistance Charts, MSDS Sheets, ASTM Standards
- **Regulatory Compliance:** EPA Regulations, OSHA Safety Standards, Industry Best Practices
- **Material Handling Equipment:** Forklifts, Hoists, Pneumatic Conveyors

SKILLS

- Chemical Engineering Principles
- Project Management
- Reliability Engineering
- Safety Compliance
- Technical Documentation
- Problem Solving Skills
- Collaboration
- Root Cause Analysis
- FMEA
- System Troubleshooting
- Vendor Management
- Emergency Response Planning
- Training Development
- Process Optimization
- Data Analysis

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association
- Volunteer, Community Science Outreach Program

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST