

# Niko Owen

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## SUMMARY

Accomplished Mechanical Engineer with over 12 years in the oil and gas sector, specializing in onshore mechanical reliability and maintenance strategies. Proven expertise in developing and executing comprehensive preventive and predictive programs that significantly enhance equipment performance while reducing downtime. Highly adept in leveraging CMMS for effective scheduling, tracking, and optimizing maintenance activities, effectively ensuring compliance with stringent safety regulations. Recognized for fostering cross-functional collaboration to elevate operational efficiency and ensure robust preventive measures align with best practices and industrial standards.

## EXPERIENCE

### Senior Mechanical Engineer

January 2021 - Present

Reliant Engineering Solutions

Riyadh, Saudi Arabia

Leads preventive and predictive maintenance strategies aimed at optimizing onshore mechanical operations. Collaborates closely with engineering, operations, and maintenance teams, bolstering plant performance and ensuring compliance with safety protocols.

- Spearheaded the implementation of a comprehensive preventive maintenance program, resulting in a 30% boost in equipment reliability over two years.
- Utilized CMMS for strategic planning and scheduling, successfully enhancing tracking efficiency and curtailing unplanned downtime by 15%.
- Executed thorough root cause analyses on mechanical failures, instituting corrective actions that lowered maintenance costs by 20%.
- Facilitated troubleshooting efforts alongside operations teams, providing technical support that led to a remarkable 25% increase in operational efficiency.
- Ensured adherence to maintenance standards and safety regulations, cultivating a strong safety culture throughout the organization.
- Coordinated cross-functional initiatives among engineering, operations, and maintenance teams to optimize overall plant performance.

### Mechanical Engineer

March 2015 - December 2020

Advanced Mechanical Solutions

Houston, TX

Focused on predictive maintenance strategies to enhance equipment reliability within a competitive industry. Spearheaded training and development initiatives aimed at elevating team effectiveness and operational success.

- Formulated and executed predictive maintenance strategies, significantly achieving a 40% decrease in equipment failure rates during the initial year.
- Introduced an innovative CMMS dashboard, streamlining maintenance tracking processes that boosted team productivity by 20%.
- Analyzed reliability data to impart actionable recommendations, producing marked improvements in maintenance planning processes.
- Conducted training sessions for maintenance personnel, elaborating new procedures and equipment usage to enhance team skills and preparedness.
- Oversaw routine safety audits and compliance checks, guaranteeing alignment with industry regulations and best practices.
- Managed complex cross-departmental projects emphasizing sustainable mechanical system performance enhancement.

### Mechanical Engineer

June 2012 - February 2015

Global Energy Corp

Los Angeles, CA

Contributed to the design and implementation of maintenance protocols tailored for key mechanical systems, resulting in enhanced reliability metrics and operational continuity.

- Engineered and enforced maintenance protocols that stimulated a 15% improvement in critical metrics related to mechanical system reliability.
- Applied root cause analysis methodologies to identify issues leading to reduced operational interruptions, bolstering reliability.
- Collaborated with engineering cohorts to improve equipment specifications, further reinforcing reliability standards within the company.
- Assisted in formulating safety programs designed to elevate maintenance personnel's safety awareness and procedural adherence.
- Integral in introducing new equipment into operations, ensuring efficient integration with existing maintenance frameworks.
- Offered ongoing technical guidance to operational teams, enabling rapid resolution of mechanical challenges as they arose.

## LEADERSHIP & AWARDS

- Achieved recognition for outstanding leadership in safety practices across multiple departments ensuring a secure working environment.
- Received the Innovator Award for implementing advanced maintenance technologies improving operational efficiencies in mechanical systems.

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

2012

University of Illinois GPA: 3.5

Urbana-Champaign, IL

**Coursework:** Thermodynamics, Fluid Mechanics, Machine Design, Dynamics

## CERTIFICATIONS

- Certified Maintenance and Reliability Professional (CMRP) 📅 2018
- Six Sigma Green Belt 📅 2020

## TECHNICAL SKILLS

- **CMMS Tools:** IBM Maximo, SAP, Infor EAM
- **Engineering Design Software:** AutoCAD, SolidWorks, CATIA
- **Analytical Tools:** MATLAB, Excel, Minitab
- **Safety Standards:** OSHA, ISO 9001, API RP 574
- **Project Management Tools:** Trello, Asana, JIRA
- **Statistical Techniques:** Six Sigma, Lean Methods, Control Charts
- **Mechanical Systems:** Pumps, Compressors, Heat Exchangers
- **Certification:** Certified Maintenance and Reliability Professional (CMRP), Six Sigma Green Belt
- **Diagnostic Tools:** Vibration Analyzers, Ultrasonic Devices, Infrared Thermography
- **Collaborative Platforms:** Microsoft Teams, Slack, Zoom

## SKILLS

- |   |   |                                       |                                 |
|---|---|---------------------------------------|---------------------------------|
| • Preventive and Predictive Maintenance | • Technical Support and Troubleshooting | • Cross-Functional Collaboration      | • Project Leadership            |
| • CMMS Proficiency                      | • Regulatory Compliance                 | • Operational Efficiency Optimization | • Mechanical System Integration |
| • Root Cause Analysis                   | • Maintenance Strategy Development      | • Safety Management                   | • Performance Improvement       |
| • Equipment Reliability Analysis        | • Data Analysis                         | • Training and Development            |                                 |

## PROFESSIONAL AFFILIATIONS

- Member of the American Society of Mechanical Engineers (ASME), advocating for engineering excellence.
- Active participant in local chapter meetings for Continuous Improvement in Maintenance Practices.

## LANGUAGES

- English (Native) • Arabic (Proficient)

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST