

Terrell L. Howard

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OBEJECTIVE

Mechanical Engineering professional with 11+ years of industry experience seeking an opportunity to showcase and utilize diverse skills in leadership, project management, quality and process improvement, engineering design, cross-functional interaction, technical sales and subject matter expertise. Highly adaptable self-starter desiring a position with growth opportunities that will be challenging and rewarding.

SKILLS

Project Management	Proposal Preparation	Technical Sales
Engineering Design	Customer Relations	Failure Mode Effects Analysis
Quality Management & Tracking	Multi-Level Interaction	Microsoft Office Applications
Root Cause Failure Analysis	Technical Writing & Presentations	AutoCAD / Pro-E / SolidWorks
Financial Modeling	Lean / Six Sigma Methodologies	SAP Business Software

ACHIEVEMENTS

Leadership / Project Management

- Coordinated a 4-phase, \$2.5MM project with a fortune 500 company over a 2 year period which included planning and budgeting; sourcing and scheduling personnel, equipment, and facilities; equipment ordering and delivery coordination; equipment set-up and installation; testing and data collection; and data interpretation, final reporting and presentation of results.
- Managed a \$350K customer, viscosity testing project of electromechanical systems that included determining project scope, budgeting and scheduling, project milestones, testing and validation, and data interpretation and results reporting and presentation.
- Organized the work of 2 managers and 15 field technicians to conduct non-destructive testing (NDT) quality inspections and failure analysis in 3 different geographic operating areas that led to a 30.4% increase in service life of equipment
- Supervised a 10-person cross-functional team in drilling operations for 14-day rotations for 6 months, resulting in 0 major incidents.

Quality / Process Improvement

- Increased electro-mechanical equipment run-life by 28.6% and decreased infantile failures by 37.8% by improving operating procedures and modifying operating set-point parameters.
- Used Key Performance Indicators (KPIs) to track vendor performance to reduce failure rates by 36.2% and increase run-life by 20.8%.
- Inspected 33 vendor manufacturing facilities by auditing Bill of Materials (BoM), Standard Operating Procedures (SOPs), component and assembly tracking methods, failure analysis and reporting techniques, and availability; approved 26 and saved \$1.6MM.
- Communicated routinely with customer via conference calls, visits, and presentations to address customer issues resulting in 31.3% decreased downtime and 22.7% reduction in pre-mature failures.

Technical Sales / Engineering

- Composed and won bid on and managed a \$2.1MM account which included equipment sizing and design; quoting and pricing; equipment installation and field service scheduling; monitoring, troubleshooting and optimization; and failure analysis and reporting.
- Saved client \$500K by replacing a hydraulic mechanical system with an electromechanical system that increased run-life by 600%.
- Designed 8 electro-mechanical systems for client at a cost of \$1.8MM with a payback period of 3.5 months based upon production with expected life cycle of 1.5 years.
- Made engineering change to Bill of Materials (BoMs) for product line resulting in saving 3 mins of assembly time and \$13/assembly.

Engineering Projects

- Created \$2.75MM in annual saving by designing and implementing a web-based SCADA monitoring program to replace vendor monitoring programs and services.
- Converted all design files for product line (15+ valves) from 2-Dimensional AutoCAD drawings (2-D CAD) to 3-Dimensional SolidWorks drawings (3-D CAD).
- Completed \$400K capital project upgrade of high temperature test facility which included sizing and design; writing the Authorization for Expenditure (AFE); planning and budgeting; scheduling, coordinating and supervising work; and testing and calibrating upgraded test facility.
- Upgraded the heating, ventilation and air conditioning (HVAC) system for the Coordinate-Measuring Machine (CMM) facility which included unit sizing, scheduled & budgeted project, accepted bids & rewarded work, scheduled and supervised work, & tested system.

EXPERIENCE

Devon Energy

Oklahoma City, OK

- *Production Engineer –Artificial Lift*, Production Operations Excellence Group May 2014 to Feb 2016
 - Advised production engineers about special applications, troubleshooting and failures as a subject matter expert
 - Completed special projects for various types of artificial lift systems both internally and with vendors
- *Drilling Engineer*, Mississippian Basin Business Unit Oct 2012 to May 2014
 - Served as rotational engineer on drilling rig making drilling calculations and well planning
 - Acted as night shift company man during 14-day drilling rotation, made decisions and coordinated work of drilling crew
- *Quality Assurance / Quality Control Engineer*, Drilling Group July 2011 to Oct 2012
 - Coordinated quality inspections of drilling motors, bottom hole assemblies, tubulars and special equipment
 - Conducted root cause failure analysis, tracked and reported failures, and monitored service reliability and maintenance practices

Cameron International

Oklahoma City, OK

March 2011 to July 2011

- *Product Design Engineer*, Corporate Engineering
 - Performed various tasks associated with sustaining engineering for various valves

Baker Hughes

Multiple Locations

- *Monitoring & Optimization Engineer*, ESP Vision Group April 2010 to March 2011 (Tulsa, OK)
 - Provided in-service resolution of customer issues by monitoring ESP wells using web-based SCADA program
 - Delivered service reliability and good maintenance practices to increase runlife and production
- *Account Manager*, Mid-Continent District Oct 2008 to April 2010 (Oklahoma City, OK)
 - Coordinated account activities including customer relations, technical sales, application design, field service & customer projects
 - Prepared proposals, made technical presentation, provided engineering updates, communicated routinely with customers
- *Application Design Engineer*, Southwest District May 2007 to Oct 2008 (Midland, TX)
 - Managed account activities including customer requests, root cause failure analysis, & new business development
 - Resolved issues in a timely fashion, completed component design, arranged maintenance and made modifications
- *Project Engineer*, Research & Development June 2005 to May 2007 (Claremore, OK)
 - Completed customer projects with a technical scope, budget and schedule in an open and collaborative team environment
 - Used project management processes including project charters, work breakdown structures (WBS), gannt charts, etc.
- *Rotational Assignment Management Program*, Corporate Oct 2004 to June 2005 (Multiple US)
 - Worked in different functional areas of company; Marketing, Engineering, Manufacturing, Regional Operations, and Sales
 - Learned about the company by completing projects, doing daily tasks, job-shadowing and making presentations

EDUCATION

Bachelor of Science

Oklahoma State University

Mechanical Engineering

May 2004

- Courses: Engineering Design, Mechanical Design, Senior Design, Aerospace Structures, Dynamic Systems, Vibrations, Heat Transfer, HVAC Systems, Metallurgy, AutoCAD, Pro-Engineering, Technical Writing, Patents and Intellectual Property

Master of Science

Oklahoma State University

Engineering and Technology Management

May 2014

- Courses: Project Management, Total Quality Management, Lean Six Sigma, Service Quality, Failure Mode Effects Analysis, Business Finance, Financial Accounting, Engineering Economics, Management, Management of Engineering and Technical Functions

Minor

Oklahoma State University

Petroleum Engineering

May 2015

- Courses: Behavior of Petroleum Fluids, Reservoir Engineering, Drilling Engineering, Production Engineering, Petroleum Geology, Well Log Analysis

ACTIVITIES

- Board Trustee Midwest City – Del City Public Schools Foundation
- Board Member Oklahoma State University Alumni Association, Black Alumni Society
- Life Member Oklahoma State University Alumni Association
- Programs Chair National Society of Black Engineers, Oklahoma City Alumni Chapter

PUBLICATIONS

- Technical Paper SPE Paper#: 141669 “ESP Recirculation System Solves Production Issue in Granite Wash Gas Well”