

Brandon Rhodes

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Objective

Quality assurance engineering assignments that utilize my skills in project management, QA Engineering, inspection, expediting, computer analysis, NDE and performance testing of rotating equipment of all types, compressors, pumps and mechanical equipment. Cryogenic LNG, LPG, Butane and Methane pump expertise with Performance Testing, NPSH tests, hydraulic tests, vibration analysis, hydros, balance, runout, and trouble shooting as related to these functions. Client and vendor relations to obtain optimum results are primary.

Work Experience

Chief Quality Assurance Engineer

3/2006 – Present: [Oceanfront Engineering Inc.](#)

- The primary functions are inspections, testing, expediting and third party surveillance activities as related to cryogenic API pumps, motors, gas turbines, control panels, electronic gear, analyzers, compressors, expansion joints, ANSI piping, ASME vessels, structural steel, valves, lube oil systems, submersible equipment and all operations associated with factory acceptance testing and evaluation of performance and functional data. Responsible for inspection of fit-up and welding of ASME Section VIII, Div 1 pressure vessels for gas tungsten arc welding and shielded metal arc welding. Vessels welds include bulk oil separators, coalescers, lube oil filters, heat exchangers per TEMA requirements and welding related to ANSI B31.1 power piping and ANSI-B31.3 chemical pipe. Inspection of the root welds for maximum penetration is performed and X-Ray review of radiographs to determine conformance to UW-51 or UW-52 of the ASME Section VIII code requirements. Witness hydrostatic testing and liquid Penetrant testing of welds to determine specification conformance. Clients include Oceanfront Engineering, Exxon, Shell, Chevron, BP, Conoco, Enbridge, Petro-Canada, CBI and Spectrol Canada. Vendors visited include: Solar Turbines, Weir Pump, Flowserve Pump, Gould Pump, Ebara Pump, Carter Cryogenics, CCI Valve, KEC & Mycom Compressors, Lortz, Bardex.
- **SPECIAL AREAS INVOLVED:**
 - [Types of Testing Experienced: Cryogenic Pump Performance testing.](#)
 - [Cryogenic net positive suction head testing.](#)
 - [Hydraulic performance evaluations.](#)
 - [Run out and Balance testing of impellers, shafts and other rotating elements.](#)
 - [Finite Element Analysis and core modeling for LNG Failures](#)

Project Engineer

6/2004 - 3/2006: Floway Pumps, Fresno, CA

- Quality Assurance Specialist for API-610 Centrifugal Pumps for testing analysis, FEA, pump dynamics and organizing projects for all disciplines.
- Investigative analysis for improved performance, appearance, engineering concepts, and manufacturing capability of product line for several types of pumps. Compile and analyze all engineering information related to the product prior to the development of engineering design concepts. Responsible for the accuracy of all calculations relative to strengths, stress or corrections of apportions and weights. Interact with customers, research, sales and manufacturing personnel on designated projects. Prepare schematics and parts lists, as required. Write test requirements for test lab to conduct required performance and hydrostatic tests Inform production planning and quality control of any inspection and/or witness test requirements. Observe all safety and ISO 9001-2000 requirements. Witness inspections, NDE testing for pressure vessels and plan 11, 53, 54 API systems.

Engineering Technician

12/2001 - 6/2004: Floway Pumps, Fresno, Ca

- Responsible for sales quote drawings, NPSH and performance curves. Assists Engineers in all engineering jobs including welding, machining, fabrication, patterns, cross-sectional, and assembly drawings. Responsible for special projects; including advertisement in brochures, and inputting drawings. Checked drawings, code calculations and distribute to the draftsman. Performed design and engineering analysis for large firewater pumps, crude oil pumps, high pressure specialty pumps and worked with alloy materials, super duplex, inconel, zirconium, stainless, brass and carbon steel.

Draftsman

8/1999 - 12/2001: Floway Pumps, Fresno, California

- Responsible for all sales quote drawings and performance curves. Assists engineers in all engineering jobs including machine, fabrication, patterns, cross sectional, and assembly drawings. Responsible for special projects with marketing, including advertisements and data input into the Cyco database.

Manufacturing Engineer

6/1999 - 8/1999: CMB Industries, Fresno, California

- Responsible for all time studies on Febco valve assembly lines. The goal was to streamline the manufacturing process of the assembly line by means of lean manufacturing. Reviewed manufacturing plans, ITP's and shop travelers.

Draftsman

4/1998 - 4/1999: Floway Pumps, Fresno, California

- Responsible for all sales quote drawings and performance curves. Assists engineers in all engineering jobs including machine, fabrication, pattern build, cross sectional, general arrangement, P & ID and assembly drawings. Responsible for special projects within the company and specialized in computer generated testing.

Education

9/1999 - 6/2006: Fresno City College, Fresno, CA

- College Coursework Completed toward AS Degree Engineering

9/1994 - 6/1998: Clovis High School, Clovis, CA

- High School Graduate
- Autocad Certification in Engineering Drafting coursework

Skills

Cryogenic and API-610 fabrication and quality assurance expertise. Certified Autocad operator, Excell and Access programs, drafting, Pattern, Machine, and Assembly Drawings, Performance and Hydro Testing Procedures, Solidworks Programming, Submittal Projects, Writing Test Requirements.

Skilled at interface with Clients and Vendors to facilitate expediting and inspection witness points as requested by the Client. Mechanical and rotating equipment are strong points with emphasis on R & D projects and Offshore & Refinery projects.