J.ERIC HENSLEY

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SUMMARY

Experienced mechanical engineer with expertise in rotating equipment and downhole tool industries. Effective leadership skills in managing projects and collaborating with R&D, product development, sustaining, manufacturing, applications, and sales. Excellent interpersonal and communication skills. Operate equally well as independent contributor and teamwork member.

TECHNICAL AND FUNCTIONAL SKILLS

- Modeling: Unigraphics & Solidworks
- Rotordynamics
- Materials Selection
- Quality Inspection & Assurance
- Design of Experiments
- Problem Solving
- Time Management
- Quantitative Analysis
- Systematic Process & Project Management
- Resourceful and Cooperative
- Instrumentation Application
- Design Verification
- Equipment Troubleshooting
- Effective Communication

PROFESSIONAL EXPERIENCE

Hughes Christensen, a Baker Hughes Division The Woodlands, TX May 2008 – July 2009
Design Engineer

- Designed changes to drill bits including fixed cutter or PDC's (Polycrystalline Diamond Compacts), EZCase, Eccentric Reamers, Data Bit based on field requirements.
- Prepared and presented reports to prove effective application of implemented design changes.
- Provided systematic approach to implement design changes effectively reducing design time and errors.
- Participated in regular design, drilling, performance, and safety group meetings.
- Identified process improvements to reduce PDC manufacturing time and cut costs.

R&M Energy Systems Willis, TX October 2006 – April 2008
Application Engineer

- Prepared conceptual design for custom test fixture including vendor and part research.
- Provided detailed drawings and coordinated with machine shop for equipment creation.
- Tested different elastomers for load and torque resistance as a function of deflection.
- Performed failure analysis of drilling motors involving part descriptions, drilling conditions, and manufacturing records.
- Conducted hands-on part evaluation prior to and after insert removal of drilling motor, recorded measurements, and noted failure modes.
- Consolidated motor reports, slide sheets, bit records, and log sheets to describe drilling conditions.
- Prepared presentation material for power section use in directional drilling and elastomer compounding.

- Visited drilling rig sites to establish customer contacts, collect mud samples & gather drilling information.

Turbomachinery Laboratory College Station, TX September 2004 – August 2006
Research Assistant

- Conducted rotordynamic testing of annular oil seals, tilting pad, flexible pivot pad, and journal bearings.
- Replaced and troubleshot related control equipment; assembly, and maintenance of test rig.
- Calibrated, installed, and maintained pressure, proximity, temperature, acceleration sensing devices.
- Engaged in use of oscilloscope, dynamic signal analyzer, voltmeter and Microsoft Excel for testing.
- Prepared reports for customers including Dresser Rand and Turbomachinery Symposium
- Defended thesis entitled: Rotordynamic Coefficients for a Load-Between-Pad, Flexible-Pivot Tilting Pad Bearing at High Loads.
- Scribed corresponding ASME Paper from thesis: GT2005-68343.

EDUCATION

Texas A&M University College Station, TX

- Master of Science, Mechanical Engineering, Graduation Date: August 2006,
- Bachelor of Science, Mechanical Engineering, Graduation Date: May 2003.

TRAINING

- Attended Bit Tech which described manufacturing processes for Tri-Cone and Diamond bits, introduced to wellbore hydraulic program and BHA design programs for drilling engineers, and the application affects of bit features. Participated in LEAD which required course work under PETex an introduction to Oil and Gas Industry, economic forecasting, BHI division presentations over product offerings, and business accounting and soft skills. Attended the Baker Hughes Technology Forum for 2008. Unigraphics training with custom design packages for bit design was provided. Lafayette manufacturing training included observation of graphite machining, loading, furnacing, crown machining, brazing, grinding, and final quality inspection. All of these training programs were provided for while working at Hughes Christensen.
- Attended SPE (Society of Petroleum Engineers) Seminars including Emerging Engineers Conference in downtown Houston, Barnett Shale, Baker Hughes, Using Novel Intervention Systems to Make Informed Decisions to Optimize Wellbore Interventions, Extreme Drilling Environment Forces Evolution of Rotary Steerable Systems and Rotary Steerable Bit Technology, Offshore Technology Conference while with R&M Energy Systems.
- Graduate coursework taken at Texas A&M included Measurement of Mechanical Vibrations, Mechanical Vibrations, Rotordynamics, Lubrication Theory, Flow & Fracture of Polymer Solids, Statistical Analysis, Advanced Computer Aided Design Engineering, and Cogeneration Systems.