General Engineering -NAME

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PROFESSIONAL SUMMARY

Product Development Engineer with a master's degree in mechanical engineering, over 7½ years of work experience in aerospace industry – over 3½ years in finite element software development and over 3½ years in design and product development of aerospace forging components.

EDUCATION

UNIVERSITY OF DENVER — MAY 2012
Master of Science in Mechanical Engineering

UNIVERSITY OF CHICAGO — MAY 2000
Bachelor of Science in Engineering

SKILLS

Statistical Test Design, Statistical Analysis Variance Control, Design Ideation & Prototyping, Root Cause Analysis

RELEVANT EXPERIENCE

Y&T CORPORATION, *Denver, CO* — 2004-PRESENT
Production Engineer

- Solely handle all production engineering responsibilities on three high-speed bottling lines
- Create systems to track and reduce variability in equipment center setups, resulting in improvements to first-pass quality and decreased ramp up time
- Improve operator-machine interfaces, resulting in decreased changeover time and steeper learning curve
- Lead initiatives to reduce variability in equipment centers through physical modifications, resulting in decreased downtime and improved insight into machine vs. materials issues
- Solve problems using root cause analysis and A3 statistical methodology
- Support continuous improvement efforts including new feature implementation
- Write quantitative performance-testing procedures for acceptance-testing of new equipment centers
- Support the buy-in of 35+ long-time operators through continuous teaching and demonstration of project success

TECHNICAL SKILLS

- **Test Design and Analysis:** Design and implementation of a two-factor factorial study. Identification and isolation of variables to improve test accuracy and remove testing bias. Two-way ANOVA to determine interactions or main effects.
- **Product Development Team Project:** Niche product development of a trash weight notification system for an elderly target market. Project covered planning methods, market research, development of constraints, multiple ideation methods, weighted decision matrices, design and prototyping of functional model, and retail cost analysis.
- **Brake-Lever Human Factors:** Collection of human grip anthropometrics. Comparison to current levered hand brake designs. Prototyping of improved design using statistical results of study.
- **Economic Analysis:** Economic analysis of hypothetical cruise line from California to Hawaii. Cash flow analysis used to determine sensitive cost parameters and break-even points to create the most profitable model.

PROFESSIONAL ORGANIZATIONS

National Society of Professional Engineers — 2001-PRESENT