Samantha T. Alumna

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LinkedIn URL

PROFILE

Results-oriented, hands-on engineer offering international experience in design, manufacturing, test and quality. Verifiable track record for the successful completion of an array of projects including new designs and component validation, continuous product improvement, and material cost improvement projects (MCIP). Detail oriented, highly organized professional with emphasis on quality, compliance, and effective leadership in cross-functional environments. Driven by new challenges and desire to be successful in all endeavors.

Areas of Achievement/Training:

- Project Management
- Product Design & Validation
- Product Improvement (Design of Experiments - DOE, Design Failure Modes & Effects Analysis - DFMEA, Characteristic Verification Matrixes – CVM, Finite Element Anaylsis - FEA)
- Problem Solving (Robust Engineering training)
- SolidWorks experience

EXPERIENCE

Company Name, Rochester, NY 19XX – 20XX
Product Design Engineer, Division Name 20XX – 20XX

Designed, tested and validated multiple components for both domestic and international customer programs. Project Lead/Program Manager responsible for:

- Developing streamlined communication plan, format and schedule for project team meetings to review progress more efficiently. This resulted in a 60% time savings for the team.
- Creating test/validation review schedule/matrix with international and domestic design and testing teams to streamline weekly reviews from two or three random 1-hour meetings per week to one 30-minute weekly review. Resulted in more accurate test planning and testing completion on time.
- Successfully led international and domestic cross-functional team to develop design and mature new supplier for critical components. Smooth and seamless transition to new supplier was necessary to improve quality of assembly and reduce warranty on component.
- Consistently completed component and assembly design in less than the required 3-month deadline.
- Training/mentoring international project teams with focus on achieving self-sufficiency and improved component prints from 50% compliant prints to 100% compliant prints in less than 6 months.
- Implementing standard metrics/checklist for CVM completion, reducing completion time by 25%.
- Creating comprehensive validation report format/checklist for senior management to reduce process time from 1 month to 2 weeks (50% reduction).
- Contributing to material cost improvement initiatives including idea generation, validation testing and customer approval resulting in annualized savings exceeding $100K.

- Organizing team building functions to cultivate a strong atmosphere of teamwork

Supported manufacturing site production for both domestic and international customers by facilitating print/product changes, customer approvals for changes and warranty/engine plant returned part analyses. Change Implementation Board member.

Applications Engineer, Group Name 20XX – 20XX

Primary engineering liaison to customers responsible for:

- Reviewing customer technical specifications and interfacing with customer to document their product requirements improving the overall quality and satisfaction of the product being developed.
- Leading cross-functional teams to author engineering specification documents to support the development of new products. The resulting engineering specifications were used as design guidelines for design engineers and for customers to improve the quality and to document the functionality of the product resulting in an increased focus on part design and testing.
- Designing vehicle tests as required to proactively collect and review critical vehicle and/or engine data to provide the most accurate requirements to the design teams. This resulted in a 10% time saving for the design team to design the part based on the actual requirements and not on “best estimates” for underhood conditions.
- Training/mentoring international applications engineers to enhance expertise in the areas of EACV engine applications, design and validation testing resulting in a reduction of 50% in customer satisfaction/interaction.

Warranty Engineer, Group Name 19XX – 19XX

Responsible for:

- Tracking and reporting monthly warranty data and claims both domestically and internationally to group, product team, Quality organization and both domestic and international customers to increase focus on improving warranty within all organizations.
- Establishing warranty targets for each model year and implementing strategies to continuously lower warranty numbers and costs (10% reduction in warranty per model year).
- Creating root cause investigation checklist and analyzing components returned under warranty to reduce time for root cause identification by 25%.

EDUCATION

Rochester Institute of Technology, Rochester, NY
BSME, Mechanical Engineering

ACTIVITIES

American Society of Mechanical Engineers 19XX – Present
Member and Chapter Chair for Professional Development

American Diabetes Association 20XX – Present
Co-chair Annual Gala