JOSHUA AUGSBURGER

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SUMMARY

A Mechanical Engineer with master's degree and 3 years of consumer product design experience. Mechanical design experience in new product introduction and production engineering changes. Successful history in creating and implementing innovative, high quality designs for product cost reduction projects. Expertise in developing engineering design solutions for high volume assembly operations. Detail oriented with a hands on mentality and solid understanding of manufacturing tooling and processes.

EXPERIENCE

GE Appliances, Louisville, Kentucky

Structural Design Engineer; 7/2016 – Current

- Assure continuous improvement and sustained operation of a bottom freezer refrigerator assembly factory that produces 240,000 units annually.
- Reduce overall product cost by implementing design change projects that resolve quality issues, high component cost, high cycle time, and unsafe assembly operations.
- Coordinate all required pre-production testing, trial runs, and approvals for each project.
- Issue bill of material changes, drawing changes, new part drawings, and new model numbers to production.

Edison Engineering Development Program Engineer; 7/2013 – 7/2016

Gained diversified experience in consumer appliance design, qualification, and execution by completing multiple NPI and Production Engineering rotations in four different product lines. Completed two NPI Engineer rotations and three Production Engineering rotations. Developed skills in root cause analysis, project management, and component design process. Significant accomplishments are below.

- Solved the top scrap issue within the GE Appliances washing machine assembly plant. Identified, designed, and implemented a new tub seal in five weeks which decreased assembly line scrap by 88%. This resulted in $450,000 in yearly savings and boosted factory moral.
- Designed from the ground up a new radial sealing fill funnel that eliminated one of the top service call/insurance claim issues on GE Appliances dishwashers. This new design also eliminated a top factory ergonomic issue, and reduced component cost by $0.36 in the process. This technology was then applied to the dishwasher sump which saved $1.2 million in annual material cost and eliminated numerous ergonomic and leak issues.
- Designed and proved feasibility of a new closing mechanism for swinging refrigerator doors. This patent pending mechanism will be implemented in 2017 and will reduce product cost by $2.50, resulting in $1.25 million in annual savings. It will provide significant quality benefits by replacing an assembly that had 60% reliability in Accelerated Life Testing.
- Determined program direction for an all-new heat pump dryer design team by analyzing the benefits and drawbacks of an open loop airflow system compared to a closed loop system. Participated in a focused engineering group that performed competitor sealed system and dry performance analyses.

SKILLS

DFSS; DFM; DOE; Finite Element Analysis (Ansys, Abaqus), 3D Modeling (Solidworks, Creo), Project Management; Microsoft Word, Excel, Power Point, Project; Tolerance Analysis; CNC Machining

EDUCATION

University of Louisville, Louisville, Kentucky 5/2016
Masters of Science, Mechanical Engineering
GPA: 3.2

The University of Toledo, Toledo, Ohio 5/2013
Bachelor of Science, Mechanical Engineering
GPA: 3.4

TRAININGS AND CERTIFICATES

GE Edison Program Graduate
GE Frontline Leadership Training
One Filed Patent Disclosure