**Maria Burton**

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# **EDUCATION**

University of Auburn

Bachelor of Science in **General Engineering,** June 2012

* Emphasis: Product Development
* Coursework focused on Industrial Engineering supplemented with Mechanical Engineering and Business

**WORK EXPERIENCE**

**Production Engineering Co-op (6 Months)** June – December 2011

* Solely handled all Production Engineering responsibilities, for 5 months, on three high-speed bottling lines.
* Created systems to track and reduce variability in equipment center setups, resulting in improvements to first-pass quality and decreased ramp up time.
* Improved operator-machine interfaces, resulting in decreased changeover time and steeper learning curve.
* Led initiatives to reduce variability in equipment centers through physical modifications, resulting in decreased downtime and improved insight into machine vs. materials issues.

**SKILLS AND QUALITIES**

Global Thinker Statistical Test Design Statistical Analysis

Excel, PowerPoint & Word Minitab Software Variance Control

Technical Writing Gauge R&R Human Centered Design

Ideation & Prototyping Root Cause Analysis Excellent Group Skills

**RELEVANT PROJECTS**

* **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.