**Emma Ward**

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# **EDUCATION**

Princeton University

Bachelor of Science in **General Engineering,** June 2004

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

**WORK EXPERIENCE**

**Global Engineering, Inc.** June 2004 – December 2013

* Engineering work experience in a high-tech manufacturing environment
* Extensive hands on project work involving efficiency, work design and measurement, industrial costs and controls, data management and system design, ergonomics, statistics, and operations research

**SKILLS AND QUALITIES**

Statistical Process Controls Statistical Test Design Statistical Analysis

Excel, PowerPoint & Word Technical Writing Variance Control

Ideation & Prototyping Root Cause Analysis Excellent Team Player

**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.