

# Alyssa Wachs

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## INDUSTRIAL ENGINEER

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A Georgia Tech Industrial Engineer with 5 years of experience in the supply chain and manufacturing industry. Project management experience in continuous process improvement and optimization, material flow improvement, cycle time reduction, and waste elimination. Proven success with root cause analysis, resolving problems using the corrective action/8D process and leading suppliers through the process. Expertise in lean six sigma methodologies, standard work creation, data analysis, statistical process control, quality engineering, and NPI part qualification.

## EXPERIENCE

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### **Moen Incorporated, North Las Vegas, NV**

#### ***Material Flow Engineer, 6/2017 – 7/2018***

- Led a kaizen event to improve the picking and shipping process of non-conveyable products. Decreased the time to complete an order by 39% through implementation of a new layout and process for the area.
- Reduced the average number of boxes shipped per order by implementing a project to store products that are frequently ordered together in the same pick area, resulting in \$30,000 of annual savings.
- Led a project to modify the pick method for a top customer's orders. Reduced the number of touches per carton from 4 to 1 and increased the total cartons shipped per pallet, resulting in an annual savings of \$21,000.
- Implemented a method to track and display productivity metrics making all employees aware of the warehouse's performance.

### **GE Appliances, Louisville, KY**

#### ***Supplier Quality Engineer, 1/2015 – 5/2017***

- Managed quality and supply issues for all rubber and blow-molded components.
- Conducted supplier quality audits.
- Led the qualification process for new components, ensuring that quality is built into the process from the beginning. Completed the first piece qualification process prior to pilot for 97% of components.
- Implemented projects to resolve quality and production issues and delivered material cost savings through supplier process changes.
- Increased the average supplier score of the rubber and blow-molded portfolio by 3% by guiding suppliers in root cause analysis and ensuring proper corrective actions were implemented.
- Managed 2 co-ops supporting the team and developed an improved onboarding and training process for them.

#### ***Operations Management Leadership Program, 7/2013 – 1/2015***

##### *Material Flow Leader*

- Reduced part handles by 50%, reduced a conveyance operator's workload by 15%, and eliminated an ergonomic issue by optimizing component packaging plans.
- Led a team that optimized the layout and created standard work to stabilize the operation and material flow of a new sub-assembly area. This resulted in a 6 second reduction of the area's cycle time, allowing an operation to be eliminated, saving \$100,000 annually.
- Member of a team that designed and implemented a scheduling and material flow process utilizing the kanban method, for a new paint line supplying parts to 2 locations.

##### *Coatings Process Engineer*

- Implemented changes to simplify the paint pretreatment data collection process and increased the accuracy and efficiency by eliminating 4 data collection tests and reducing the frequency of 2 tests.
- Determined that 170% more paint was being used than the specification required and implemented a plan to reformulate the paint allowing less paint to be used, saving \$525,000 annually.
- Decreased paint line downtime and process variability by establishing a method for operators to create control charts to better monitor data.

#### *Business Team Leader*

- Supervised an oven assembly line of over 120 operators and implemented improvements to reduce operator cycle times, allowing 5 jobs to be eliminated.
- Increased assembly line yield by 2% by improving the operator training process and implementing increased quality inspections.
- Led a Human and Organizational Performance learning team focused on increasing the early reporting of operator injuries.

#### **Supply Chain Technical Co-op**

##### *Business Team Leader, 1/2012 – 5/2012*

- Supervised a washing machine assembly line of over 100 operators.
- Implemented daily solutions to optimize production, and created hour-by-hour charts to track production rates.
- Created and maintained spreadsheets to monitor assembly line headcount, and ensured all jobs were covered daily.

##### *Advanced Manufacturing Engineer, 5/2011 – 8/2011*

- Completed sigma cycle time measurements for an entire assembly line process. Used these measurements to create Yamazumi charts to determine the best way to arrange assembly line tasks.
- Decreased production cycle time by 25% by designing, evaluating, and modifying workstation set-up and layout for a new dishwasher assembly line.

##### *Central Quality Engineer, 8/2010 – 12/2010*

- Tested and evaluated a new version of a system to monitor daily service calls.
- Utilized SAS to create reports for the quality team.

##### *Purchased Material Quality Engineer, 1/2010 – 5/2010*

- Processed all non-conforming parts for the refrigerator assembly line, obtained RMAs, and worked with suppliers to improve quality of delivered parts.
- Created and improved standard work documents.
- Performed ISO audits and maintained gauge calibration.

## **TECHNOLOGY/COMPUTER SKILLS/COURSES**

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*Software* – Minitab, Statistical Analysis System (SAS), MATLAB, Python, Simio Simulation, Microsoft Office

*Certifications* – Lean Six Sigma Green Belt, ISO 9001 – GE Appliances Certified Auditor

*Completed Courses* – AIAG Understanding and Implementing APQP with PPAP, AIAG Applied SPC and MSA for Practitioners, Paulson Plastics Academy ProEx Blow Molding Program for Extrusion, RED BEAR Negotiating with Suppliers

## **EDUCATION**

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### **Georgia Institute of Technology, Atlanta, Georgia**

*Bachelor of Science Industrial and Systems Engineering, 5/2013*

Concentration in Supply Chain

GPA: 3.9/4.0, HOPE Scholar, Faculty Honors (GPA 4.0): 5 semesters

Studied abroad at Tsinghua University, Beijing, China (6 weeks)

Studied abroad at National University of Singapore (6 weeks)

Studied abroad at Georgia Tech Lorraine, Metz, France (1 semester)

## **LEADERSHIP/VOLUNTEER INVOLVEMENT**

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GE Commodity Club, Committee Member (2/2015-5/2017) – Planned bi-monthly events for GE's sourcing and quality teams

Alpha Pi Mu Honor Society, Member (2011-2013)

GT1000, Team Leader (2009-2013) – Assisted with teaching a weekly class that helps freshman learn to be successful in college

Institute of Industrial Engineers, Member (2008-2013)

Connect with Tech, Host (2009-2012) – Hosted high school students monthly to help them learn about Georgia Tech

Alpha Gamma Delta Sorority, Member (2008-2012)