Sarah Parvini M.Sc., CSCP

Senior Industrial Engineer

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Senior Industrial Engineer with 10+ years of experience in high tech and consumer goods manufacturing. I specialize in process optimization, identifying loss opportunities, and driving cross-functional projects from concept to completion. I'm genuinely passionate about the supply chain space, and earning my APICS CSCP certification deepened that interest by helping me understand how all the moving parts connect. I've worked closely with planning, engineering, and operations teams to improve performance, remove inefficiencies, and help teams make better decisions faster. Whether working on-site or remotely, I'm known for bringing clarity, structure, and measurable impact to complex problems.

EXPERIENCE

Capacity Industrial Engineer • *Intel*, Hillsboro, OR • July 2020 - Present

Led strategic capacity initiatives and manufacturing optimization projects for wafer level assembly, managing capacity of tools from concept to high volume production, reporting directly to plant manager:

- **Delivered 10X efficiency improvement** in critical manufacturing capacity data flow and analysis, empowering 10 industrial engineers across multiple teams by saving 40 hrs/month of manual work, improving accuracy and eliminating human error. Earned Department recognition Award (2025)
- **Developed capacity models** for tactical and long term strategic time frames, coordinating planning, manufacturing, and layout teams to bring the right tools up to meet customer demands with 0% capacity shortfall.
- **Reduced production capacity bottlenecks** through process analysis, data visualization, interactive dashboards and working directly with engineering managers to analyze run rate and availability data and identify areas of performance gap.Automated TPT analysis of transfer times by product.

Department Capability Manager • *Procter and Gamble,* St. Louis, MO • April 2019 - May 2020

Managed large scale dust control system and quality improvement projects for high-volume manufacturing:

- **Delivered multi-million-dollar annual savings** through optimizing packaging line by implementing a new weight checker system reducing the number of pouches put in each bag, saving $1.2M annually.
- **Developed strategic project management system** identifying dust control systems deficiencies and shortfalls, working with outside vendors on new blueprint and multiple improvement projects to eliminate risk of sensitization to employees.
- **Enhanced technical capabilities of all techs** through designing and conducting technical bootcamps to elevate site capability in safety, quality, and Lean skills.

Manufacturing Engineer • *Procter and Gamble,* St. Louis, MO • May 2017 - April 2019

Led tool performance improvement projects on bag lines via P&G loss elimination systems

- **Implemented loss Elimination strategies** using Integrated Work system (IWS) based on daily line performance analysis data, enabling accelerated loss analysis followed by detailed documented CAPA to prevent future losses.
- **Led a $11k/month bag film saving project** by developing standard for splice procedure, working with outside vendors on bag design. Tested concept,applied change and trained all line operators.

Industrial Engineer • *SunEdison Semiconductor, St Peters, MO* • April 2015 - Feb 2017
Developed capacity systems for entire cleanroom, for plant manager decision making on CapEx

- **Developed Capacity models** by designing tool-specific weekly bucket models to forecast production ramp-up constraints and drive proactive capacity planning initiatives.
- **Led 7 KAIZEN events** applied lean manufacturing principles within cleanroom environments, collaborating with engineering and operations teams during KAIZEN events to optimize process flows and eliminate waste.

Manufacturing Engineer • *Bristol Compressor, Bristol, VA* • June 2014 - April 2015
Optimized productivity and efficiency in a very human heavy manufacturing line

- **Facilitated KAIZEN events** to identify production line problems via value stream mapping and creating action plans for closing gaps
- **Labor model and line balancing** through conducting detailed time studies and recommending new operator and machine staffing levels, improving labor and equipment efficiency
- **Ergonomic improvements** by converting traditional line manufacturing to a cellular setup with ergonomy in mind for efficient handling and motion waste reduction.
- **Reduced changeover times by 60%** through Implementing one-piece flow production system and SMED techniques in the housing department, reducing inventory buildup and minimizing changeover times.

EDUCATION

M.Sc., Industrial Engineering • Clemson University • 2014
B.Sc., Industrial Engineerings • Tabriz University • 2010

CERTIFICATIONS

CSCP(certified supply chain professional) (APICS) • (active since 2017)
Lean certification • Lean learning Center (2015)
Atlassian Agile with Jira • Coursera (2025)
Green Belt • Clemson University (2014)

SKILLS & TOOLBOX

Project: KAIZEN, TeamGantt, VSM, trade-off analysis and decision-tree,DOE
Data: Python, SQL,MS Suite
Stats: SPC, A/B testing
Code: Python
Languages: English(Fluent),Farsi(Native),Turkish(Fluent),Azeri(Fluent),Arabic(Basic)