SWANAND SHIRISH WABLE

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EDUCATION:

Northeastern University — **Boston, USA**
Master of Science in Industrial Engineering, **GPA: 3.4** — ***December 2020***
Relevant Courses: Deterministic Operation Research, Probability & Statistics, Supply Chain Engineering, Lean Concept & Applications, Logistics, Warehousing, and Scheduling, Statistical Quality Control, Product Development

University of Pune — **Pune, India**
Master of Engineering in Mechanical Design Engineering, **GPA: 4.0** — ***May 2017***

University of Mumbai — **Mumbai, India**
Bachelor of Engineering in Mechanical Engineering, **GPA: 3.5** — ***May 2015***

SKILLS:

Software: AutoCAD, Catia R5, ERP, Maximo, Arena, Minitab, MS Office, GD&T, JMP, Metrology (OGP imaging system, Instron, Keyence system, Flex Bar)
Certification: Diploma in CAD Design, Six Sigma Lean Green Belt, 5S, Kaizen Facilitator, Total Productive Maintenance

PROVEN EXPERTISE:

- Lean Manufacturing/JIT
- Six Sigma/PDCA/Poka-Yoke
- Good Manufacturing Practice (GMP)
- Root Cause Analysis (RCA)
- Cost Control/Scrap Reduction
- Product Development
- Continuous Improvement (CI)
- Assembly and Production
- Material Management

WORK EXPERIENCE:

Insulet Corporation — **Massachusetts**
Manufacturing Engineering Co-op — ***January 2020 – August 2020***

- Performed validation and qualification of manufacturing equipment and processes leveraging standard qualification approaches **(IQ/OQ/PQ/TMV/ETR)** in compliance with FDA regulations and ISO standards
- Implemented PDCA cycle for Continuous Improvement Projects with the help of **Kanban, Poke-Yoke, Fish Bone diagram**
- Improved Overall Equipment Effectiveness (**OEE**) by approx. 3-4% by identifying the major causes of downtime and generating the Pareto Chart
- Reduced scrap rate for in-production equipment from 6% to 1% by updating the process limits for the vision software
- Developed and stored protocols and reports in PLM software **ARENA** and maintained work record on **Maximo**
- Utilized **OGP imaging system, Instron, Keyence system, Flex Bar** to measure dimensions and force of components of the product
- Improved line efficiencies using Design of Experiments, Risk Assessment and Pareto Analysis by approximately 7%
- Conducted Process Studies and Root Cause Analysis (RCA) to achieve and maintain high Process Capability (Cpk, Ppk) and Reproducibility (G R&R)

Adsun Offshore Diving Contractors Private Limited — **Mumbai, India**
Project & Procurement Engineer — ***May 2017 – March 2018***

- Implemented distribution and logistics strategies, supervised inventory management, order fulfillment, and quality management; ensured on-time delivery of 90% orders, reduced delivery costs by 30%
- Maintained inventory records and identified restock requirements to prevent a delay in product delivery by 40% using **Lean Six Sigma** approach
- Conducted inbound and outbound freight rate analysis and identified areas for lower rate negotiations resulting overhead reduction by 15%
- Designed and executed responsive systems to maintain timely and effective procurement of goods, liaising with Project Managers; identifying constraints within the supplier process

Schreiber Dynamix Dairy Limited — **Baramati, India**
Maintenance Trainee Intern — ***February 2017 – May 2017***

- Pioneered in the maintenance of pumps, bactofuge, separators, gearbox and preheat exchangers
- Improved efficiency of the machines by analyzing the procedures and utilizing 5S tool by 10%
- Designed risk management strategy and framework to manage operational risk exposure using **Continuous Improvement** approach
- Explored knowledge safety service's practice, **ERP** System for maintenance and storage

Graphix Technologies — **Pune, India**
CAD Engineer — ***June 2015 – July 2016***

- Revised process to assure that **CAD** systems met customer requirements
- Inspected designs of different systems to meet targets of performance, cost, safety, quality and feasibility
- Learned and accomplished **UGNX & PTC CREO 2.0** software for design projects

PROJECTS:

Telecommunication Network Design Problem *(Northeastern University)* — ***September 2019 – December 2019***

- Minimized number of add-drop Multiplexer (ADM) by locating hub and rings to satisfy capacity and flow constraints
- Using AMPL software to run the algorithm to find out the best possible solution which will have low optimality gap along with low cost

Applications of Lean Concepts in Hotel Industry *(Northeastern University)* — ***January 2019 – April 2019***

- Analyzed the data & working concept of Hotel Industry using **DMAIC** model **& SIPOC** chart.
- Mapped the priority of lean techniques using **Pareto Chart** which can directly impact the quality.

Design & Manufacturing of Solar Panel Cleaning System *(University of Pune)* — ***May 2016 – November 2017***

- Developed 2D and 3D models using **AutoCAD** for cleaning of solar panels, delivering model with 20% cost savings
- Ensured corrective maintenance strategies to reduce maintenance cost annually by 2%
- Presented technical specification requirements, leading to 50% increase in adoption rate; collaborated with 5 seniors in BERSON Company to make a model for effective cleaning of panels