SUYASH SUHAS INGAWALE

(979) 344-1660 | suyash_0812@tamu.edu | LinkedIn | College Station, TX

EDUCATION

Texas A&M University, College Station, TX May 2024
Master of Science in Industrial Engineering *GPA-3.84/4.0*

Shivaji University, Kolhapur, India July 2022
Bachelor of Technology in Mechanical Engineering *GPA-3.79/4.0*

PROFESSIONAL EXPERIENCE

Process Engineering Intern, ABB Inc., Bartlesville, OK May 2023 – Aug 2023

- Optimized production line performance using FIFO, line balancing, manufacturing data synchronization, material flow and ergonomic improvements, resulting in **3.12 min.** reduction in cycle time, and annual savings of **$ 110K**.
- Managed **8 NPI** production trials, identified & resolved **11** bottlenecks leading to **18%** enhancement in resource utilization.
- Led **Six Sigma Green Belt** project, to standardize and streamline lab testing and runout process, achieving **47%** reduction in process time and **23%** reduction in process variability.
- Spearheaded team of 10, utilized **PFMEAs** to pinpoint failure modes; executed countermeasures and redefined quality gates achieving **14%** surge in First Pass Yield, yielding in **$ 10K** savings in **COPQ**.
- Designed & validated new product manufacturing processes; collaborated in NPI process mapping, developed workstations setup for NPI line & leveraged **DFA** (Design for Assembly) principles, resulting in **6%** decrease in product costs.

Industrial Engineering Intern, Kirloskar Brothers Ltd., India Nov 2021 – May 2022

- Performed in-depth **root cause analysis** using **8D** approach; identified and rectified **26** contributors to decreased productivity and quality issues by implementing **CAPA**, leading to annual savings of **$25K**.
- Conducted **time studies** to identify & resolve bottlenecks in production system, causing cycle time improvement by **18%**; revised time standards for **9** subprocesses from foundry and painting shop using **MOST**, enabling precise wage structuring.
- Enhanced machine utilization by **~10%**, incorporating **capacity planning** strategies and **MySQL** insights for 44 machines.
- Revamped production line layout to reduce daily motion by **0.59 miles/individual**, using AutoCAD and cell designing tools.
- Implemented **value stream maps** across machine shops, foundries packaging, boosting operational efficiency by **15%**.
- Introduced 11 **Kaizens** and 6 **Poka-Yokes** on production line, to enhance efficiency of workers and decrease **Muda**.

Manufacturing Engineering Intern, Shree Spherotech Pvt. Ltd., India Jan 2021 – Oct 2021

- Improved **OEE** (overall equipment effectiveness) by **21%** utilizing motion studies, eliminating non-value-added activities, optimizing production plan, & revising **work instructions**, resulting in increased machine availability & performance by **13%**.
- Conducted **Gage R&R**, **process capability** studies; achieved R&R score of **9.47%**, and decreased variance by **15%**.
- Boosted molding line efficiency by elevating throughput yield from **22** to **29** units/hr through effective **line balancing**.
- Pioneered implementation of **FMEA** and managed associated **7 ECRs** (Engineering Change Requests), reducing product launch cycle times by **~20%** through early detection and resolution of potential failures.
- Devised and executed **3 control plans** for axle hub manufacturing line, yielding in **55%** reduction in monthly defects.
- Developed and updated process flow charts, control plans, **GD&T** specifications, achieving **PPAP** approval for key parts.

ACADEMIC PROJECTS

Statistical Process Control using Principal Component Analysis Mar 2023 – May 2023

- Analyzed manufacturing dataset of 552 observations across 209 variables using Minitab, identified outliers, mean shifts using m-CUSUM & T^2 charts; calculated 3 sigma control limits for stable parameters, facilitating future data analysis.

Revamping warehouse operations using lean engineering tools: Rochester Sensors, TX Jan 2023 – May 2023

- Redesigned warehouse layout, established SOPs, and integrated KPI tracking with visual management system using Power BI, achieving 44% improvement in picking efficiency, reduction in 8 forms of wastes, and savings of 640 sq. ft. in floor space.

CERTIFICATIONS AND SKILLS

- **Certification:** Lean Six Sigma Green Belt-IISE, Certified Associate in Project Management (CAPM) – PMI
- **Functional Skills:** DMAIC, Lean Manufacturing, Project Management, New Product Introduction, Quality Control & Assurance, Work Study Measurement, Risk Analysis, Project Planning & control, Stakeholder Management, Change Control
- **Software Skills:** AutoCAD, Visio, Minitab, Power BI, SAP, Catia, Solidworks, MS Office, JIRA, MS Project, NX (Siemens), SQL