Harshal Rajiv Bhatt

SUSTAINABLETECHNOLOGY AUTOMOBILE & MOBILITY

Mechanical Engineer with Master's in Sustainable Technology Management with Focus on Automobile/Automotive and Mobility.

Learned in EV production, Battery Manufacturing and design, Car Design and Alternative fuel. Experience in cross-functional implementation, standard work tools, task-aligned balancing, and evidence-based methods (VA/NVA, TDS, RCA; A3/Kaizen/5-Why). Got knowledge on improving FPY, uptime, and capacity while stabilizing flow and reducing cost to meet demand reliably.

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- Education:

- Masters in Sustainable Technology Management with a focus on Automobile engineering and mobility, **SRH Hochschule Berlin, Germany (2023-2025)**
- Bachelor of Technology in Mechanical Engineering, Symbiosis Institute of Technology, Pune, India (2018-2022).

- Technical & Engineering Skills
  - Computational Fluid Dynamics (CFD) • Finite Element Analysis (FEA)
  - CAD Software (SolidWorks, CATIA, Autodesk Inventor)
  - ANSYS, MATLAB
  - Electric Vehicle System
  - ADAS Systems
- Automobile Engineering
- Sustainable Technology
- Data Analytics & Programming Skills
  - Data Analysis & Visualization
  - Machine learning
  - Python
  - C ++
  - MS Office, Excel (Advanced)
  - AVIX
- Manufacturing, Process & Quality Management
- Project & Production Management
  - Lean,5S, Kaizen
  - Time & Motion Study, Line Balancing, Cycle Time Reduction, Reducing Time buckets.
  - Quality Control & Audit.
  - Production Line Optimization
  - Supply Chain Coordination
  - Problem Solving & Analytical Methods (A3, 5-Why)
  - Cross functional coordination

- **Languages**

English – Native
Deutsch – Conversational.

- References available upon request

Professional Experiences

Period: August 2022 - August 2023 - 1 Year.
Organization: Markforge Pvt Ltd | Mumbai, India
Role: Assistant Production Manager

- *Planned & executed weekly SOPs and daily production schedules.*
- *Led process diagnostics & bottleneck removal, driving a 2-hour reduction in end-to-end cycle time.*
- *Performed time & motion studies and VA/NVA assessments on key stations; introduced standard work and task-aligned line balancing to stabilize cycle-time variability.*
- *Partnered with Supply Chain to shrink inbound RM time buckets and Propionate WIP/inventory.*
- *Supported RTO headcount planning by shift and station.*
- *Built A3 problem-solving summaries and RCA (5-Why/fishbone)*

Period: January 2022 - July 2022 - 6 months
Organization: Tata-Motors EVBU plant, Pune, India
Role: Production Line Supervisor (Internship)

- Aligned with team members of a new EV production line with responsibility for ticking check list for quality & throughput.
- Used TDS (Technical Diagnostic System) on 30+ vehicles/day.
- Conducted cycle-time benchmarking, line balancing, and sequence dependency
- Checked with Process Engineering to protect CTQs and station order.
- Collaborated on an auto-charging cut-off (sensor based) for charging EV and documented standard work for updated control plans.
- Adapted understandings on Supply Chain for material readiness; stabilized availability (uptime) by addressing maintenance/SMED pain points.
- Studied improvement in roadmaps to Production, Quality, and Design.

Projects:

- Impact of graphene nanomaterials in LITHIUM-ION Batteries data. (Highest awarded grade 'A' with a pending publication).
- Design and formation of Advanced Driver Assistant System (ADAS) with an automobile working model. (SRH, Berlin)
- Design and Fabrication of a Foldable Electric Skateboard. (VI Semester - Symbiosis).
- Practical model of the airplane landing gear. (VII Semester - Symbiosis)
- Reduction of defects in Model Kanger-2 vehicle model using the TDS (Technical Diagnostic System) tool. (TATA Motors)
- Advanced techniques for battery charging. (TATA Motors)
- Automatic automobile parking systems. (TATA Motors