

# Nitya Sundar Sharma

## Summary

*Industrial systems professional with 8 years of experience across automotive/aerospace manufacturing and plant operations, improving operational performance through digital manufacturing solutions and data analytics. Demonstrated impact in process optimization, lead-time and cost reduction by applying lean design principles and Industry 4.0 based manufacturing concepts for scalable, KPI driven improvements in manufacturing efficiency.*

| Qualification       | Institute                                               | Year      |
|---------------------|---------------------------------------------------------|-----------|
| MBA (pursuing)      | Indian Institute of Management, Ahmedabad               | 2024-2026 |
| B.Tech (Mechanical) | Kalinga Institute of Industrial Technology, Bhubaneswar | 2013-2017 |
| XII, CBSE           | Delhi Public School, Bhilai                             | 2013      |
| X, CBSE             | Delhi Public School, Bhilai                             | 2011      |

## Work Experience

(8 Years)

### Airbus India Pvt Ltd | Bangalore

(5 Years)

Engineer-Industrialization

April '21-Present

- Designed and optimized plant layouts and industrial systems for Final Assembly Lines (FALs) and Major Component Assemblies (MCAs) in commercial aircraft manufacturing and systems installation, applying lean design principles and transformation towards Industry 5.0, including collaborative robotics and smart Jigs & Tools, to improve process efficiency and operator ergonomics.
- Developed KPI-driven processes, methods and tools for industrial architecture assessment, conducting Product-Process-Resource (PPR) analysis, PERT-based critical path evaluation, resulting in a significant reduction in design-to-manufacturing lead time across aircraft development phases.
- Led industrial data analytics initiatives, building predictive models for process workload estimation using advanced regression and machine learning techniques, leveraging PPR-centric datasets transformed from raw MES data to support manufacturing process planning and operational decision-making.

### Tata Technologies Ltd, TML | Pune

(3 Years)

Design Engineer

March '18-March '21

- Optimized plant layouts and assembly systems across passenger and commercial vehicles manufacturing using CAD-based digital manufacturing, preparing DFMA, Build-sequence, Assembly clash detection and ergonomic (RULA) analyses to validate assembly feasibility and improve manufacturability and operator efficiency.
- Developed discrete-event simulation (DES) models for automotive and aerospace production systems to evaluate throughput, capacity and resource utilization across variable cycle times and shifts, optimizing buffers, logistics flows and pallet sizing to remove bottlenecks and enhance line efficiency.

## Awards / Recognition

- Best Paper Award for “EWIS Architecture Assessment” at TechXceed, the annual technical conference organized by the Airbus engineering vertical, recognizing excellence in systems architecture evaluation and co-development.
- Best Project Team Award for “Systems Upgrade for Turnaround 2.0” at Tata Technologies (Tata Motors), awarded for successful execution of a large-scale systems upgrade delivering operational improvement and turnaround impact.

## Additional Certifications

|                                   |                                                                                                                                                                                     |      |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>Data Analytics &amp; AI/ML</b> | <ul style="list-style-type: none"> <li>Data analyst Nanodegree – Udacity</li> <li>Palantir Skywise platform - Airbus</li> </ul>                                                     | 2022 |
| <b>Digital Manufacturing</b>      | <ul style="list-style-type: none"> <li>3DExperience – Dassault Systemes</li> <li>Siemens NX Suite – CADD centre</li> <li>Ansys – Central Tool Room &amp; Training Centre</li> </ul> | 2018 |

## Interests / Extra-Curriculars

|                              |                                                                                                                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sports Leadership</b>     | <ul style="list-style-type: none"> <li>Captained university and workplace football teams; represented teams in inter-university and corporate tournaments, demonstrating teamwork, discipline and competitive drive.</li> </ul> |
| <b>Automotive Enthusiast</b> | <ul style="list-style-type: none"> <li>Core team member for BAJA ATV and Formula Student India (FSI) competitions organized by SAEIndia, contributing to vehicle design, build, and race preparation.</li> </ul>                |
| <b>Performing Arts</b>       | <ul style="list-style-type: none"> <li>Trained in Hindustani Classical Music (Visharad certification), recipient of awards at various music, dance &amp; dramatics competitions, reflecting creative rigor.</li> </ul>          |

Email: [nitya290695@gmail.com](mailto:nitya290695@gmail.com) | Contact: +91-9770140818 | LinkedIn: <https://in.linkedin.com/in/nitya-sharma-65096a120>