

# NITYA SHARMA

Email : [nitya290695@gmail.com](mailto:nitya290695@gmail.com)

Phone : +91-9770140818

LinkedIn : <https://in.linkedin.com/in/nitya-sharma-65096a120>

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**Industrial Design Engineer** with 5 years of work experience in **Industrial systems engineering & Digital manufacturing** applications, seeking opportunity to work on innovative ideas using latest technologies on projects providing me a motivating & challenging environment that presents me the best opportunities to grow professionally thereby enabling me to contribute for the project's overall growth.

## Core Competencies

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- **Digital Manufacturing;** development of 3D factory models & line equipments to optimize layout, check material flow, assess & resolve design problems early in planning phase and PPR centric scenario simulation for clash detection & clearance analysis, Ergonomic assessment & virtual validation of Plant equipping facilities.
- **Discrete Event simulation;** modeling & simulation of factory processes & assembly lines for production throughput analysis, resource utilization and logistics analysis to improve manufacturing process assembly and optimize overall factory flow.
- **Data analytics ;** data collection & wrangling techniques for cleaning & normalizing raw data, transformation & EDA to generate insights through dashboards & predict results using AI/ML models.

## Job Experience

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*Organization: **Tata Technologies Limited (E R&D), Tata Motors, Pune***

- Providing solutions for Plant layout optimization, DFA & DFM using CAD software packages, validation of Product assembly & vehicle packaging feasibility by carrying out DFMA & Clash detection analysis, operator ergonomic analysis/RULA through Assembly process simulation.
- Developing Factory models & carrying-out iterated throughput analysis of the Production system at variable cycle time & shift patterns to determine the effects of changes in the existing Assembly line, Buffer & pallets qty calculation, logistics & resource utilization evaluation to detect & eliminate Bottleneck to maximize throughput & line efficiency.
- Integrated Software development programming on Simtalk, CatVBA & C++ language, developing simulation models for automation & analyzing factory KPIs.

Organization: **Airbus India**, Bangalore

- Developing Process, Method & Tools to analyze and assess the Industrial KPIs like Workload estimation & costing, Lead time and critical path analysis for A/C trade-off studies between the AsIs & ToBe scenarios for modularization and systems installation.
- PPR Context driven solutions for 3D Plant layout design using Lean guidelines, simulating PPR centric scenarios for Main component assemblies, Product flow & plant resource movements for various A/C programs & configurations.

## Software skills & Education

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- Catia/Delmia V5
- 3DExperience
- Teamcenter NX suite
- Skywise
- TCE & SAP tool
- Ansys
- Tecnomatix Plantsim
- AutoCAD
- MS Office suite

<b>Degree</b>	<b>CGPA</b>	<b>Year</b>	<b>Institution</b>
B.Tech (Mechanical)	7.92	2017	KIIT University, Bhubaneswar
12 <sup>th</sup> std	82.4 %	2013	Delhi Public School, Bhilai
10 <sup>th</sup> std	9.4	2011	Delhi Public School, Bhilai

- keen observer with good analytical & problem-solving ability.
- can work efficiently & drive projects as an individual or in a team.
- excellent communication, presentation & stakeholder management skills.
- good understanding of design, manufacturing process, programming & IT services.
- proficient in Hindi & English language
- can organize & manage resources efficiently for satisfactory results.