

ABINASH SWAIN



About Me



4.5 Year's experience

August 03, 1998

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Bhubaneswar, Odisha

<https://www.linkedin.com/in/abinash-swain-621b42169/>

Industrial/Manufacturing/Assembly/Process Engineering Professional

As an Industrial Digital Manufacturing Engineer, responsible for creating 3D Digital Mock-Ups of plants and prepare related methodology documentation and best practices to assist the Industrial teams from conceptual design through the finished industrial system. Additionally, assist in defining, developing and deploying these Industrial systems and digital twin capabilities in the frame of digital manufacturing and Industry 4.0.



Education

Bachelor, Mechanical Engineering

Government College of Engineering,
Keonjhar, Odisha (82.90%)

Graduated, July 2019

(<http://www.gcekjr.ac.in/>)

Diploma, Mechanical Engineering

Nilachal Polytechnic, Bhubaneswar, Odisha
(85.97%)

Graduated, July 2016

(<https://www.nilachalpolytechnic.org/>)

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University High School, Vanivihar, Odisha
(80.67%)

Graduated, July 2013

(<https://utkaluniversity.ac.in/university-high-school/>)



Work Experience

CREATIVE SYNERGIES GROUP (<https://www.global-csg.com/>)

July-2023~Ongoing

Pune, India

Process Engineer



TATA TECHNOLOGIES LTD (<https://www.tatatechnologies.com/>)

January-2022~June-2023

Jamsedpur, India

Engineer Design



HARSCO INDIA PVT LTD (<https://www.harsco-environmental.com/>)

November-2019~May-2021

Odisha, India

Junior Engineer





Profile Summary

- Proficiency in Process planning, Continuous improvement.
- New products assembly feasibility study along Quality, Production, Planning for desired facilities with productivity, quality and delivery requirements.
- Basics of assembly process sequence, process equipment, fixture, storage, kitting and feeding facilities.
- Component Mapping & Classification & Process flow Diagram.
- Pre-Process Planning of BIW Closure & HCV Trucks Assembly Line.
- Maintain accurate time studies for Assembly lines using STDS (Standard time data system) methodology, Motion analysis, Manpower calculation & Line Balancing.
- Experience in creating the sequence of operation, time element, operation method sheet & work instruction.
- Purpose detail layout, which include assembly line, line side logistic, human position at station, Equipment position.
- Good Knowledge in time study, work study, line balancing with factory exposure.
- Validate the product/assembly with respective to torque selection / specification, Tool accessibility.
- Knowledge on human factor ergonomic Industry Guidelines.
- Drive continuous improvement through elimination of waste.
- Evaluate bottleneck areas and support throughput and productivity improvements in assigned area.
- Participate in lean manufacturing through implementation of GM's Global Manufacturing System.
- Implement common Industrial Engineering business practices and processes.
- DMU Check w.r.t rationalization of Parts, Tools and Operators Accessibility, Clash & Clearances.
- Simultaneous Engineering Work.

Project : (Passenger & Commercial Vehicle)

OEM- General Motors. (Model- T1XX-1 & T1XX-2 _CHEVY & GMC,C121)

Plant: Fort Wayne, Fairfax (United States).

- *BIW Closure Assembly Planning*
 - Preparing all kinds of Documents which are required at BIW Body Pre-Closure Assembly Line like ERGO Documents, Poka Yoke, Cycle Time management, Job Element Sheet (JES), Process Sheets for Closure Assembly, Sequence Sheet, Process Verification Sheets, Process Bubble Charts, and Variant Option Verification Documents etc. for Shop Floor Coordination.
 - Process planning, Layout design, cycle time analysis for BIW Closure Line Assembly, Design Approval Process (DAP) and customer interactions for TCF & BIW Fixture Tools ,Tools & Torque Selection for for BIW Closure Assembly like Doors. Lift Gate, Hood, Fender Assy etc.

OEM- Tesla. (Model- Front & Reay Y- Cradle)

Plant: Michigan (United States).

- Process Flow/Bubble Charts Documents.
- Product & Weld Details Overview.
- Clamping Sequence Develop. (CDLS)

OEM- Stellantis. (Model- DT25 Hood & Tailgate)

Plant: Saltillo (City In Mexico).

- Process Flow Sheet.
- Ergo Studies Documents with Respect to Tools & Dunnages.
- MODAPTS Documents.
- MA Sheet. (Robot Time Study)
- MURI Analysis.
- Weld Graphics Documents.

OEM- Tata Motors. (Model- Tata PRIMA & SIGNA)

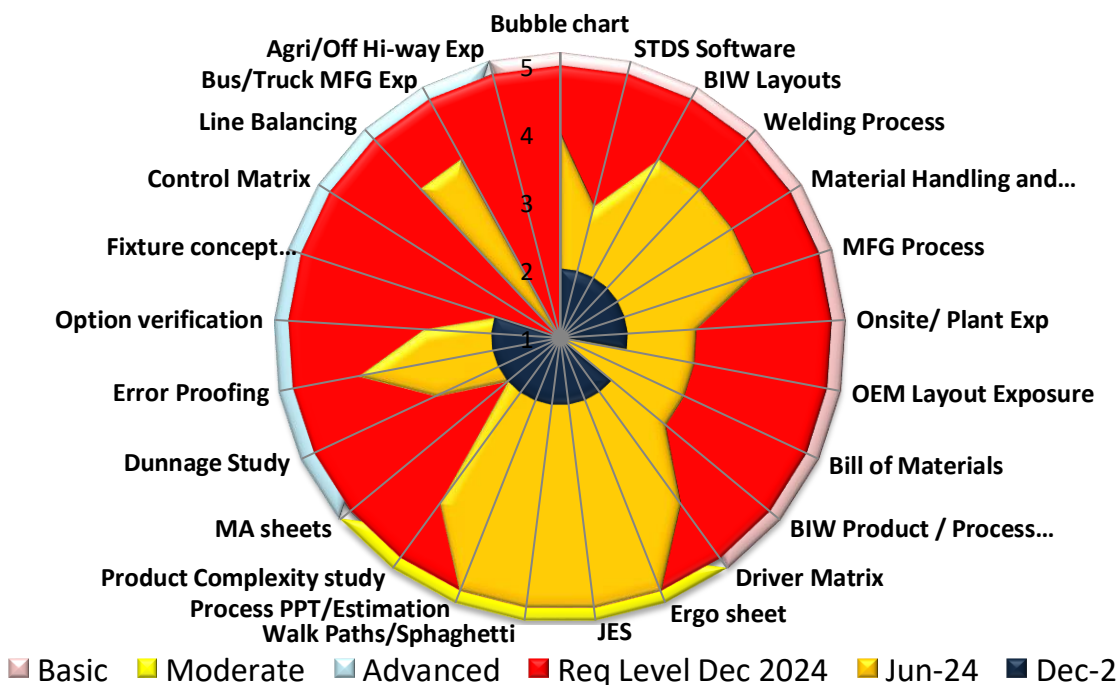
Plant: Jamshedpur (India).

- *Heavy Trucks Vehicle Assembly Planning*

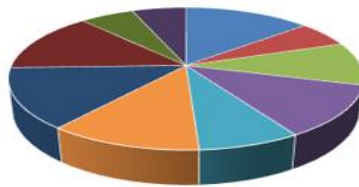
- Service & Training Department Support in DPDS-Service Department Tata Motors-
 - Training Videos creation with help of Simulations.
- Digital Factory Creation in DPDS-Central Planning Tata Motors -
 - With input 2D layout of Complete Shop, reference images from Shop Floor and Physical Measurements for elevations and 2D drawings of components.
 - Model the Factory to have a ready reference for validations in case of changes.
 - Create Walkthrough.
- Shop Floor Documentation in DPDS-Central Planning Tata Motors -
 - Shop floor Study for Vehicle Final Assembly and Create Process Sheet.
- Human Ergonomics Simulations in DPDS-Central Planning Tata Motors -
 - Validate Process Flow Diagram.
 - Human ergonomics Study for each fitment with RULA score, Operator's Reachability, Operator's Visibility study.



Technical Skills



Software



- | | |
|--------------------|-------------------------|
| ■ DELMIA V5 | ■ AUTO CAD |
| ■ PLM | ■ TEAMCENTER VIS-MOCKUP |
| ■ CATIA V5 | ■ UG NX-12 |
| ■ MICROSOFT OFFICE | ■ PPT |
| ■ CATIA COMPOSER | ■ ORACLE |



Professional Qualifications and Affiliations

- Post Graduate Diploma In Operation Management(PGDIOM) from IGNOU(2023-Continue)
- Digital Supply Chain.IIM,Mumbai-NPTEL (Feb-2024-Continue)
- Supply Chain Analytics.(IIT,kharagpur)
- Certification in UGNX by SIEMENS COE.
- Certification in CATIAV5,DELMIAV5 by TATA TECHNOLOGIES LTD
- Certification in TECNOMATIX PLANT SIMULATION by TATA TECHNOLOGIES LTD.
- Certification in Auto CAD by CTTC.



Personal Details

Father's Name:	Mr. Jaya Prakash Swain	Marital Status:	UnMarried
Birthday:	Aug 03, 199 8	Nationality:	Indian
Gender:	Male		
Address:	AT-HALADHARPUR,PO-SUKARPARA,DIST-CUTTACK ODISHA-754209		
Passport No:	S4821929		
Languages:	English,Hindi,Odia		

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