



Smruti Sarita Swain

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Summary

Impact-driven aerospace professional with 7.5+ years across aircraft systems simulation and digital transformation. Led cross-functional, multi-country teams to cut process variation, accelerate time-to-market and turn data into measurable throughput gains

Professional Experience

Lead Engineer | Collins Aerospace | Bengaluru

- Led a two-engineer team in developing digital models for Power Drive Unit and Cargo systems assembly lines at both greenfield and brownfield sites, projecting a 5% increase in resource productivity
- Spearheaded and concluded a workshop with Cargo operations unit to select a pilot use case and define standard work procedures for digital factory simulation, producing the first standardized input template and outcomes roadmap that aligned all stakeholders on shared goals and deliverables
- Authored and presented PDU-line simulation project at the Manufacturing Technology Network Symposium, securing cross-functional approvals for org-wide showcase
- Collaborated with teams in UK and Italy to demonstrate Asset Administration Shells and Digital Product Passport budgeted at USD 200K; initiative part of EU's Eco- Design for Sustainable Products Regulation (ESPR) for achieving 2020 Circular economy targets
- Successfully carried out Process Twin of Engine Harness manufacturing assembly line under Industry 4.0, leading to reduction of variation hours by ~40% and 20% increase in throughput
- Self-initiated AI Solution Architect upskilling via Employee Scholar Program (AI/ML, GenAI certifications); explored integrating AI/GenAI into virtual-factory platform for next-gen simulation and analytics.

Engineer | Airbus | Bengaluru

- Led a team of four to deliver simulation packages of aircraft models and cockpit components worth USD 150k for Airbus A320 and A330 aircrafts, streamlining development processes and reducing time-to-market by 40%
- Analysed simulation of models (flight warning, navigation, cockpit panels) and troubleshoot aircraft systems in ground-based test rig Iron Bird at Airbus Global HQ Toulouse, France, reducing physical prototype costs by 20%
- Independently drove end-to-end product development, integration, validation, and delivery of Electronic Centralized Aircraft Monitoring (ECAM) Display Package (EDP) worth USD 130k for Design Offices of A320, A330, A340, A350, and A380 aircrafts, cutting down design time by 30%
- Developed Airbus internal tools and platforms for data production and connection analysis, migrating them to latest technologies while designing automated testing solutions for commercial aircrafts, reducing 100+ person-hours annually
- Coordinated with clients in UK, France, and Germany, consulted with SMEs from different model teams, ensured compliance of project deliverables with Airbus Operating System

Interactive Developer | Publicis Sapient | Bengaluru

- Deconstructed intricate corporate business requirements into robust, high-performance front-end software architecture designs covering both client-side and server-side scripting to ensure seamless application delivery
- Managed direct technical communication and coordination channels with global clients to facilitate smooth deployments. Oversaw code execution audits and led rapid debugging cycles to isolate and resolve critical defects ahead of strict production deadlines

Education

M.Tech – *Indian Institute of Technology, Bombay* | India

B.Tech – *National Institute of Technology, Rourkela* | India

Accomplishments and Awards

- Vertical Head (Automotive, Aviation & Manufacturing), Placement Committee, IIM Ahmedabad PGPM (2026–27)
- Spot Award for Collaboration for organizing International Women's Day for 1,500+ pan India employees of Collins, 2023.
- Secured second position in B. Tech, Electronics and Instrumentation Engineering department, class of 2015
- Secured second position in Reflexion event, International Students' Meet (ISM), 2013, NIT Rourkela

License & Certifications

RTX AI-ML Essentials certification

Agile 101

Advanced Excel

Co/Extra-curricular

- Spoc for Maternity Buddy Program at Collins Aerospace; leading 24 buddies for providing support to 700+ women employees
- Active member of the Collins Aerospace Toastmasters Club, Bengaluru (2025), building public-speaking and communication skills within a structured peer-learning forum
- Completed a 15-day Mountaineering Adventure course at Jawahar Institute, Kashmir, and a 14k ft, 5-day Himalayan trek
- Teaching Assistant, IIT Bombay, for B. Tech and M. Tech students in System Modeling Design and Control course
- Co-organized Talent Show competition at Mood Indigo, IIT Bombay; 40+ participants auditioned and evaluated
- Core member of the WISE Resource Group at Collins Aerospace (2024), an employee resource group focused on advancing diversity and inclusion