



Smruti Sarita Swain

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Summary

Strategy and Product leader with 7.5+ years driving cross-functional, multi-country transformation programs end-to-end - from business case and roadmap definition through agile backlog management and measurable delivery. IIT graduate with a proven track record of turning ambiguous stakeholder needs into prioritized roadmaps, leading sprint execution and refinement, securing executive buy-in, and driving 20-40% efficiency and speed-to-market gains across aerospace and global manufacturing markets in the US and Europe

Professional Experience

Lead Engineer | Collins Aerospace | Bengaluru

Aug'22 – Mar'26

- Led a 2-person team to build a digital-modelling product across two manufacturing sites-brownfield and greenfield, projecting a 5% productivity gain and freeing capacity without added headcount
- Prototyped a RAG-based assistant to retrieve standardized digital-factory SOPs, enabling natural-language querying of work procedures instead of manual document search, projected to cut procedure lookup time by 40%
- Directed a cross-functional discovery workshop to select a pilot use case and define standard procedures, delivering the organization's first standardized template and roadmap, cutting ramp-up time for future initiatives
- Piloted an agentic workflow that automates key setup steps in digital twin creation for the Power Drive Unit assembly line, targeted to reduce manual model-build time by 30%, keeping human in loop
- Built and presented an operations-focused business case for a new simulation initiative at an industry-wide technology symposium, securing cross-functional leadership approval for org-wide visibility of the work
- Steered a \$200K cross-border initiative with UK and Italy teams to build a digital compliance-tracking solution, positioning the business ahead of EU sustainability regulation for an early-mover advantage
- Spearheaded a Process Twin initiative under Industry 4.0, using data-driven simulation to resolve inefficiencies before implementation, cutting variation hours ~40% and boosting throughput 20%
- Owned the Virtual Factory product backlog, writing epics/user stories with clear acceptance criteria that cut sprint spillover by ~20% and raised sprint predictability to ~80% through refinement, planning, and retros

Engineer | Airbus | Bengaluru

Apr'21 – Aug'21

- Led a 4-person team to deliver a \$150K portfolio of product simulations for two major aircraft platforms, streamlining the development process end-to-end and cutting time-to-market by 40%
- Applied k-means clustering on aircraft systems test data to identify recurring fault patterns across flight warning and navigation systems, cutting redundant physical test cycles by ~25%

Associate Engineer | Airbus | Bengaluru

Jul'18 – Mar'21

- Owned end-to-end delivery of a \$130K aircraft monitoring product from development through validation and launch for five aircraft platforms, cutting design time by 30%
- Mitigated product risk by validating simulations through hands-on testing at global HQ in Toulouse, France, debugging issues pre-production and cutting prototype costs by 20% without compromising safety or reliability
- Automated manual simulator test execution using image-recognition scripting (Sikuli) to identify and interact with cockpit control panels across multiple flight phases, cutting manual test steps by 40%
- Identified inefficiencies in legacy internal tools and led their modernization to current technology standards, while defining requirements for new automation solutions, saving 100+ person-hours annually
- Served as primary point of contact for clients across the UK, France, and Germany, aligning cross-functional experts and keeping every deliverable on standard without delivery slippage

Interactive Developer | Publicis Sapient | Bengaluru

Jun'15 – Jun'16

- Transformed complex business requirements into clear, structured product specifications spanning the full application stack, ensuring smooth handoff to engineering and consistent, reliable delivery for high-stakes client applications
- Owned client communication and coordination across global deployments, driving cross-functional issue-resolution efforts to detect and fix critical defects ahead of strict deadlines, protecting release timelines and maintaining client trust under pressure

Education

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

Jul'16 – Jul'18

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

Jun'11 – Jun'15

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

- Achieved AIR 145 in GATE, placing within the top 0.5 percentile on national level
- Secured second position in Reflexion event, International Students' Meet (ISM), 2013, NIT Rourkela

License & Certifications

- AI-ML Essentials Certification
- Agile 101

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