Ankit Panigrahi

https://ankitpanigrahi78.github.io/portfolio/

Mobile No: +91 7735791012 Whitefield, Bangalore - 560048

Design Engineer

Work Experience – 2.5 Year ankitpanigrahi78@gmail.com

PROFILE

Project Engineer with 2+ years' experience in Design, Development & Manufacturing of aerospace systems design — including LRUs, test rigs. Experienced in CAD drafting & modeling, tubing, ICDs, PDR & CDR reports, working with Engineering and Manufacturing teams & business development teams.

Naukri: https://www.naukri.com/mnjuser/profile

LinkedIn: https://www.linkedin.com/in/ankit-panigrahi-4b520a209/

EDUCATION		Pass-Out
B. Tech	GITA Autonomous College, Bhubaneswar	2023
12 th	Times Scholars Gurukul, Bhubaneswar	2019
10 th	Army Public School, Kanpur	2017

CERTIFICATIONS

- GD&T Fundamentals & MATLAB Training
- Aerospace Manufacturing Workshop
- Master Certification Course in CAD & CAM
- CATIA Piping, Tubing & Digital Mockups Training Dassault Systèmes

Agency).

TECHNICAL SKILLS		
Combat Aircraft Fuel System Design and Development	Modeling, Drafting, GD&T, BOM, System Design, Process Sheet, Engineering Drawings, Manufacturing Knowledge, assembly and cost reduction, Product Development, Report Making (Microsoft Office), KOP, Piping, Tubing, Aerospace technical documentation (technical proposals, ICDs), compliance matrix, test procedures (QTP, ATP), BOM management, Root Cause Analysis (RCA),	
Computer-Aided Design (CAD)	Catia V5, NX Unigraphics, SolidWorks, AutoCAD, Creo	
Product Life Cycle Management (PLM)	Enovia, Teamcenter [Basic]	
WORK EXPERIENCE		

CTTC (Ministry of MSMI	E); Junior Project Engineer	Apr 2023 – Present
	CTTC - TDF Projects	
	Completed 3-month intensive training o workflows, from CAD modeling to testing.	n aerospace manufacturing
	Contributed to fuel systems design & testing	ng for valves and pumps.
	Worked on CAD modeling, manufacturing	inspection, and qualification
	testing of mission components.	
	Deputed to ADA (Aeronautical Development Agency) for the Design and	
Project	Development of LRUs [Line Replaceable Units] & System Design.	
Experience	Retractable Probe, Drogue & Relief Valves (LRUs) for LCA Tejas & Fuel System	
	Pipeline Routing (Modeling) for Navy & Airforce Dire	ectorates.
	Responsibilities:	
	 Prepared LRU-level requirements docume 	nt for the Combat Aircraft fuel
	system, ensuring alignment with ISO, MIL-	STD, Stanag standards and

airworthiness requirements set by CEMILAC & ARDC (Certifying

Project Experience	 Developed detailed compliance matrices covering aerospace quality standards, environmental testing, and certification parameters. Designed and developed combat aircraft fuel system LRUs in compliance with MIL-STD-810H, supporting Preliminary Design Reviews (PDRs), Critical Design Reviews (CDRs), and indigenous product development initiatives. Created Interface Control Documents (ICDs) and developed using CATIA and Enovia, ensuring full traceability through the product lifecycle. Performed theoretical stress analysis using hand calculations to validate structural integrity. Developed manufacturing methods and detailed process models to meet aerospace quality and cost objectives. Produced 2D schematic drawings in AutoCAD and comprehensive assembly procedures in line with aerospace documentation standards. Designed and simulated 3D CAD models for functional testing, supporting validation activities. Prepared Master Drawing Index (MDI), Kit of Parts (KOP), and process sheets for aerospace assemblies. Developed Digital Mock-Ups (DMU) for design validation and integration planning. Prepared technical reports, presentations, and project documentation compliant with aerospace standards for review boards and certification audits. Managed and updated Bills of Materials (BOMs) for all components and assemblies. Provided technical documentation and presentation support during design reviews, aiding in strategic decision-making. Worked closely with senior engineers and reporting officers, supporting all phases of LRU design, manufacturing, integration, and qualification. Universal Test Rig for Valves (LRU Development) & Testing Responsibilities: Designed 2D/3D CAD models for aerospace test rigs (fuel) per ASME SECTION VIII Div 1. Prepared and executed ATPs for component approval. Coordinated cr
	altitude, and endurance), setup, and integration issue resolution.
PERSONAL SKILLS	
Others	 Problem Solving. Client-facing Communication. Project Handling. Teamwork & Quick learner.
	5. Presentation Skills.