

PROFILE		
As more than 1.8 years experienced aerospace professional specializing in Mechanical CAD design, simulation, and analysis , I excel in creating precise CAD models and conducting detailed simulations to ensure the optimal performance of aerospace components. My expertise includes comprehensive report making , where I support the engineering decisions and project development . With a strong background in mechanical design and a keen eye for detail, I translate complex engineering requirements into actionable solutions. Committed to advancing aerospace technologies .		
EDUCATION		
B. Tech	GITA Autonomous College, Bhubaneswar	2023
12 th	Times Scholars Gurukul, Bhubaneswar	2019
10 th	Army Public School, Kanpur	2017
TECHNICAL SKILLS		
CAD Software (2D & 3D)	Catia, SolidWorks, AutoCAD, Creo, NX Unigraphics, Autodesk	
CAE Software	Ansys, Theoretical Stress Analysis, Hand Calculations	
Simulation	MATLAB	
Microsoft Office	MS Word, MS Power Point, MS Excel	
Designing Tools	GD&T, Bill of Materials, Process Sheet, Drafting, Manufacturing Knowledge (Milling Turning, Grinding and EDM), Assembly, Sheet Metal, Modeling, BOM, Interface Critical Drawings	
Others	Product Development, Project Management, Report Making	
Product Life Cycle Management (PLM)	Enovia	
PROFESSIONAL EXPERIENCE		
CTTC (Ministry of MSME); Junior Project Engineer		Apr 2023 – Present
Project Experience	Deputed to ADA (Aeronautical Development Agency) for the Design and Development of LRUs.	
	Test Rig for Valves Testing (Sept 2024 – Present)	
	1. Designed to minimize drag and maintain aerodynamic efficiency.	
	2. The RIG must fit and connect properly with Leakage, durability, response time, flow coefficient (Cv), and pressure drop.	
	3. The RIG needs the operational performance of valves.	
	Responsibilities	
	1. Created detailed 2D technical drawings in AutoCAD for a Test Rig and coupling designs , ensuring precision and adherence to engineering standards.	
	2. Developed 3D models using advanced CAD software, enabling accurate visualization and validation of the Valve Testing Rig and its components.	
	3. Design and modeling workflows, translating reference data into functional prototypes for manufacturing and testing .	
	Surge Relief Valves (Apr 2023 – Sept 2024)	
	1. Design modification of Relief valves to avoid frequent failure.	
	2. Carried out Theoretical design calculations .	
	3. 3D Modelling, Drafting and Manufacturing drawings using CAD Software.	
	4. Preliminary Design Report of all 3 types of Relief valves.	
	Responsibilities and Accomplishment	
	1. Preparation of Process Sheet of various Aerospace Mechanical components.	
	2. Preparations of type approval documents and Reports with certification authority.	

	3. Preparation of Manufacturing Drawings and (MDI) Master Drawing Index. 4. Preparation of (PDR) Preliminary Design Report & (CDR) Critical Design Review. 5. Preparation of (KOP) Kit of Parts and Bill of Materials & Project Reports. 6. Preparation of the ICD Drawings, with Theoretical Analysis.	
SKYY RIDER ELECTRIC, Summer Intern Feb 2022 – May 2022		
Responsibilities	1. Help create and refine CAD models and Assembly models . 2. Maintain records and prepare progress reports and attended the team meetings and work with other departments. 3. Develop skills and learn from experienced team members.	
HERO MOTOCORP, Winter Intern Nov 2020 – Jan 2021		
Responsibilities	1. Created CAD models for the Bike parts and its prototype. 2. Maintain reports and connected with the team members and other departments.	
PROJECT WORKS		
Academic Projects	1. <u>Electric Vehicles</u> Reduce human effort and environment pollutions . Apr 2022 - May 2022	
	2. <u>E– Tricycle</u> Survival of physically disabled persons is a concerning social issue now a days. Various hand driven tricycles, wheelchairs, retrofitted vehicles etc. are commonly available for disabled people as a mode of transportation. Aug 2021 - Feb 2022	
LEADERSHIP EXPERIENCE		
Positions of Responsibility	Member, Core Organizing Committee , Akansha - University Level Youth Festival held at BPUT.	2021
	Member of FFWPU (Family Federation for World Peace and Unification)	2019
PERSONAL SKILLS		
Others	1. Problem solving skills & Ability to work well under pressure. 2. Project Handling and Public Speaking . 3. Teamwork & Quick learner. 4. Team Management & confident in communicating . 5. Good at solving logical problems.	
PERSONAL PROFILE		
Name	Ankit Panigrahi	
Date of Birth	25th June 2002	
Nationality	Indian	
Religion	Hindu	
Marital Status	Unmarried	
Gender	Male	
Language Known	English, Hindi, Odia	
DECLARATION		
I hereby declare that all the above-mentioned information is true & best of my knowledge.		