Harshal Kulkarni

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Summery

Results-driven engineer excels in design optimization and management, showcasing expertise in innovative, manufacturing-oriented design.

Education

Master of Science in Interdisciplinary Engineering (Focusing Mechanical Engineering) Trier University of Applied Sciences **Bachelor of Engineering in Mechanical Engineering** Savitribai Phule Pune University

Technical Skills

Software - SOLIDWORKS, CATIA, ANSYS, HYPERMESH Languages - Python, MATLAB, Simulink Version Control - 3D Experience

Experiences

Product Development Engineer

Ikran Aerospace and Technologies Pvt Ltd

- Optimized **design and R&D** budget to improve resource allocation, contributing to enhanced company profitability and operational efficiency.
- Led end-to-end new product development for drones, streamlining processes from design to production, • resulting in notable gains.
- Revitalized design concepts using CAD and MATLAB/Simulink, leading to a 20% increase in on-time • product delivery and heightened client satisfaction, aligning with company goals.
- Managed successful production of a hexacopter and prototyped a vertical take-off landing aircraft with • SolidWorks, ANSYS, and SIMULIA, diversifying the company's product portfolio and positively impacting profitability.

Design Engineer

Om Metals and Engineers

- Revamped and modernized existing machinery, leading to a significant boost in production efficiency.
- Effectively managed and delivered turn-key projects, showcasing adept project execution skills that played • a vital role in the overall success of the company.
- Collaborated closely with the manufacturing team, addressing their challenges and gaining valuable . insights into the practical aspects of design from a manufacturing standpoint. This collaborative effort not only improved team dynamics but also played a crucial role in refining designs for enhanced manufacturability.

Working Student

Confio Engineering Solutions Pvt Ltd

- Innovated machine tooling, fixtures, and prototypes, optimizing manufacturing processes for increased efficiency.
- Executed diverse machining tasks, **enhancing productivity** in both basic and complex production setups. •
- Pioneered the development of Special Purpose Machines (SPM), streamlining operations for specialized • manufacturing solutions.
- Led client specifications gathering, aligning manufacturing considerations, and optimizing techniques. .
- Engineered car parts for events like M-BAJA, SUPRA, EFFICYCLE, GOKART, ensuring compliance with industry standards and enhancing product performance through versatility and problem-solving.

Projects

Designing and Manufacturing of Rear Suspension of Vehicle of Team ProTron	Germany, Aug 2023 - Present
Conceptual design of Wheelbase Extension Mechanism of MP3 Scooter	<i>Germany,</i> Apr 2023 - Oct 2023
Development of Vertical Takeoff and Landing UAV	<i>India,</i> Jul 2019 - Feb 2020
Development of Onion Farming Vehicle	<i>India,</i> Sep 2018 - Mar 2019
Development of BAJA Buggy for SAE India competition	<i>India,</i> Apr 2017 - Feb 2018

Extracurricular activities

- Performer in Ramanbaug Yuva Manch EV (Dhol-Tasha-Dhwai Pathak, cultural representative organisation)
- Enthusiastic follower of Formula One

Mar 2023 - Present Trier, Germany Jul 2015 - May 2020 Pune. India

Jan 2022 - Mar 2023

Pune, India

Dec 2017 - Aug 2020

Pune, India

Sep 2020 - Dec 2021

Pune, India