

MAHESH S

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WORK EXPERIENCE

MICROSOFT

SEATTLE, WA

Studio Design Engineer - Contractual

01/2024 - PRESENT

- Collaborating closely with the industrial design team, Mechanical Engineering and prototyping team in the development of CAD models ranging from rough concepts and prototypes to final Class-A industrial design models.
- Acting as a Liaison between ID and ME teams, ensuring that all the ID requirements are captured, while helping to resolve ME issues during the development of the product.

SHIFT ROBOTICS Inc.

PITTSBURGH, PA

Mechanical Engineer and Product Design Intern

06/2023 - 08/2023

- Revamped the assembly process through mechanical design modifications, significantly curtailing part count and consolidating the main components into a dual-part structure resulting in a 40% reduction in production costs.
- Pioneered the development of the final models with multiple rapid prototypes to dramatically reduce the ergonomic burden on wearers by streamlining the product's structure.
- Pioneered the development of the next-gen product design with efforts to dramatically reduce the ergonomic burden on wearers by streamlining the product's structure, leading to enhanced ease of donning and doffing.

HERO MOTO CORP LTD

JAIPUR, INDIA

Digital Modeler

04/2021 - 05/2022

- Engaged in onsite project developments concentrating on the enhancement of packaging solutions for motorcycle informatics and electronic components with multiple test analysis and assemblies.
- Collaborated on various ideations using SubD models and engaged in rapid prototyping activities. Worked closely with clay modeling to refine and finalize the ultimate model for development.
- Implemented test analyses and assembly optimizations to the final class A, employed analytical methodologies to minimize component tolerances and optimize manufacturability within high-volume production constraints.

ADROIT DISEGNO LTD

BENGALURU, INDIA

Digital Modeler

04/2020 - 03/2021

- Co-founded a design consultancy to provide end-to-end product design solutions for early-stage startups in India. Working closely with founders across industries, took concepts from initial creative ideations and designs all the way through to final models ready for production.
- Generated ideas using SubD modeling, refined the form with extensive clay modeling. Spearheaded prototyping initiatives, pioneering design considerations around driver ergonomics and proximity to heating/electronic components..

MARUTI SUZUKI INDIA LTD

GURGAON, INDIA

Digital Modeler

07/2018 - 03/2020

- Engaged in onsite project developments focusing on enhancing the instrument panel assembly to ensure seamless usability for customers within their comfortable reach.
- Collaborated with the design and engineering teams to pioneer the development of a novel part separation approach resulting in an exceptionally smooth and seamless perception of the product after assembly.
- Collaborated across foundational and premium segments to develop customized Class A models for each segment, ensuring optimal precision and user experience tailored to diverse customer needs

EDUCATION

CARNEGIE MELLON UNIVERSITY

PITTSBURGH, PA

Master of Integrated Innovation for Products & Services- Advanced study

12/2023

Coursework:-Technology Strategy, Consumer Behavior, Integrated Product Development

MAHATMA GANDHI UNIVERSITY

KOTTAYAM, INDIA

Bachelors in Mechanical Engineering

05/2017

SKILLS & INTERESTS

Hard Skills:- 3D CAD, Product Definition and Validation, Product Development, User Research, Consumer Electronics

Soft Skills:- Product Strategy, User Research, Presentation, Product Visualization. Product Management.

Software skills:-Autodesk Alias and VRED , PTC CREO, UG NX, CATIA, DFM, DFA. FEA, Python, Raspberry Pi.