

MANDAR DALIMBE

Product Designer

CONTACT

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EDUCATION

2019 - 2023

B.E. AUTOMOBILE

Government College of
Engineering & Research

SKILLS

- Solidworks
- Catia
- Keyshot
- Ansys
- PTC Creo
- Additive Manufacturing
- Rapid Prototyping
- Ultimaker Cura
- CAD
- 3D Printing
- Product Design

ACHIEVEMENTS

- **ROBOCON 2022**
INTERNATIONAL RANK 5
Aug 2021 - Aug 2022
- **ROBOCON 2022**
NATIONAL RANK 2
Aug 2021 - Aug 2022
- **ROBOCON 2021**
NATIONAL RANK 6
Aug 2020 - Aug 2021
- **ROBOCON 2020**
NATIONAL RANK 10
Aug 2019 - Aug 2020

CERTIFICATIONS

- PTC Creo Parametric-A Complete Beginner to Advanced Course
- Pro Engineer Creo Fundamental 3D design course

WORK EXPERIENCE

Robokidz Eduventures Pvt. Ltd, Pune

Junior Product Designer

Sept 2023 - Present

Product Designer Intern

Feb 2022 - May 2022

- **Professional Product Designer** specializing in 3D Printing, Designing, Rapid Prototyping, and CAD
- **Collaborated directly with many esteemed clients on numerous projects** to design and develop products for DIY kits, optimized for mass production
- **Designed products that were successfully patented**, demonstrating innovative thinking and attention to detail
- **Contributed to company catalogue** by designing, rendering, and presenting products for improved marketability and customer appeal
- **Enhanced internal R&D processes** by implementing more advanced software for realistic renders, improving design quality and efficiency
- **Redesigned key company products**, increasing functionality and driving an **87% increase in revenue** from these updated products

Robotics Research Lab

Senior Product Designer

Aug 2019 - May 2023

Swerve Drive Robot Project

Jan 2021 - Aug 2021

- Designed and developed **first in India for the Doordarshan National Robocon event**, a new Omnidirectional drive system that can drive and steer the wheels independently
- Successfully implemented belt drive and gear drive using spur and bevel gears
- Improved speed, stability, agility, and Load-carrying capacity over conventional drive
- Reduced weight and cost of manufacturing using carbon fiber reinforced 3D printed parts
- Got **100/100** for Robot designing and Rendering in ROBOCON EVENT

Arrow picking, loading and throwing Robot

Jun 2021 - Aug 2021

- Designed and developed an Automatic Arrow Throwing mechanism (Ecrossbow) using lead-Screw, Spring Pneumatic Trigger, rigid string and 3Dprinted parts
- Designed and developed Arrow placing (Arrow feeding) mechanism using Stepper motor and laser cut Acrylic Plates mounted on Hollow Circular bar
- Improve Arrow loading mechanism using Pneumatics and DC motor
- implemented a new drive system using timing-belts and BLDC motor

Ball Catching, Loading and Throwing Robot

Jun 2022 - Aug 2022

- Designed and developed Automatic Ball Throwing mechanism (Rotor) using BLDC Motor, Pneumatic Trigger and 3D-printed parts
- Designed and developed Ball feeding mechanism using Pneumatic Triggers mounted on Hollow PVC Tube