

CHINMAY KHAMKAR

Product Designer

+91 8392915073

J/204 - AWHO Vijay Vihar,
Wagholi, Pune, 412207

chinkham23@gmail.com

EDUCATION

B.DES PRODUCT DESIGN

MIT WPU Pune (Top 20%)
Batch 2027

12TH GRADE (PCB + PSY)

Army Public School Sagar
Batch 2023

10TH GRADE (METRIC)

Delhi Public School Sangrur
Batch 2021

TECHNICAL & ENGINEERING SKILLS

- Hardware:** Electrification, BLDC Motor Tuning, Metal Fabrication
- Digital:** Fusion 360, 3D-Printing, Modelling.
- Systems:** Arduino Logic, Mechatronics, IR/Ultrasonic Sensor Integration.

DESIGN SKILLS

- New Product Development (NPD)
- Reverse Engineering & Retrofitting
- Frugal Prototyping
- Human-Centered Hardware Design
- Design for Manufacturability (DFM)

LANGUAGES

- English
- Hindi
- Marathi

RESEARCH OBJECTIVE

Third-year B.Des Product Design student specialising in functional prototyping, Electric Vehicle integration, and grassroots engineering. Eager to bring a hands-on, creative mindset to physical product research at IIT Hyderabad, applying my experience in mechanical fabrication and systems design to create tangible, user-centric hardware solutions.

HARDWARE INNOVATIONS

Bullet EV (Patent Applied)

2022-2023

- Engineered the complete conversion of a Royal Enfield Bullet from an ICE to an Electric Vehicle.
- Integrated a high-torque 48V BLDC motor with a custom-machined geared drivetrain.

Electric Go-Kart

2024

Built a track-ready electric kart from scratch using repurposed scooter tyres, a 24V Brushed DC setup.

Eco Jeep

2019-2021

Fabricated a 2-seater quadricycle from cycle components making hybrid pedal-electric acceleration system for tandem cycling

ENTREPRENEURSHIP & INTERNSHIP

Founder & Lead Fabricator | Vahanik Customs

Since 2025

- Established and currently operating an independent, home-based automotive workshop.
- Specialising in custom motorcycle modifications, structural chassis repairs, and comprehensive mechanical maintenance.

Video Editor | Carma and Company

Feb & March 2025

Executed professional video editing and visual branding tasks, demonstrating proficiency in digital media and deadline-driven project delivery.

ACHIEVEMENTS

- Indian Army AWWA Award** (Southern Command, 2024): Honoured for the fabrication of the Electric Go-Kart.
- National 4th Rank** | All India Science Exhibition | Amity Uni (2022): Recognised at the national level for Designing of Eco Jeep.

LEADERSHIP ROLES

UNIVERSITY VICE PRESIDENT

MIT WPU Pune
Since 2025

COORDINATION LEAD

Design XPO 2026
Since 2025

CLASS REPRESENTATIVE

Product Design MIT WPU
Since 2023

CAMPUS AMBASSADOR

For APS Akhnoor at IIT Delhi
2019

SCHOOL CAPTAIN

APS Sagar
2023

CERTIFICATIONS

- AI - ML | IIT Delhi | 2019
- Automobile Engineering | IIT Delhi | 2019
- Intro to Robotics | IIT Delhi | 2019
- Basic Robotics | IFR | 2021
- Advance Robotics | IFR | 2021

SOCIAL IMPACT EXPERIENCES

Electric Waste Collection Tricycle Conversion

2023

- Converted a manual garbage collection tricycle into an electric vehicle to reduce physical strain on sanitation workers.
- Integrated a 24V brushed DC system with custom mounting for high-torque, heavy load action.

Tyre Coffee Table Chair Set | Sustainable Product Design

2025

Repurposed worn out automotive tyres into a chair and coffee table set to promote sustainable recycled design and waste reduction.

Internship | CRY Foundation

May - July 2021

Executed fundraising and awareness campaigns, directly supporting child rights initiatives and gaining grassroots social engagement experience.

ERGONOMICS & EVERYDAY INNOVATION

Smart City Traffic Management System

2025

- Integrated IR sensor arrays for density-based signal regulation and automated emergency vehicle overrides.
- Developed end-to-end logic for city-wide integration and automated sensor-based challan generation.

Ultrasonic Dishwasher

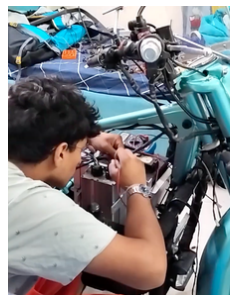
2026

Engineered a modular dishwashing solution utilising ultrasonic vibrators, designed to retrofit into classic Indian kitchen sinks.

PROJECT EVIDENCES



Eco Jeep



Electric Waste Collection Tricycle Conversion



Bullet EV (Patent Applied)

GRADE - CARD

Bachelor Of Design (Product Design)

Name of the Student : Chinmay Khamkar
Permanent Register Number : 1122230161
Father's Name : Nilesh Khamkar
Mother's Name : Purabi Khamkar
Semester : 05
Month and Year : November 2025

Sl No.	Course Code	Course Credits	Course Title	Grade Awarded	Grade Point
1	VCD3PE23A	2	Environmental Graphic	O	20
2	PRO3PM01A	3	System Thinking and Product Lifecycle	A	24
3	PRO3PM02A	3	Healthcare Innovation	B	18
4	PRO3PM10A	4	Product Design Studio Project - III	A+	36
5	PRO3PE06A	2	Parametricism in Design	O	20
6	PCE3UC03A	2	Managing Conflicts Peacefully: Tools and Techniques	O	20
7	PSY3UE510	4	Applied Positive Psychology	O	40

Medium of Instruction : English

Semester Credits Earned 20

GPA 9.14

CGPA 8.59

Semester / Trimester	1	2	3	4	5
CGPA	8.24	7.51	8.32	8.36	8.59

Remark : PASS

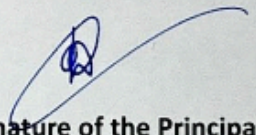
Note : This is a system generated document for student reference.

Mit WPU/SOD/25-26/121

CERTIFICATE

This is to certify that Mr/Ms/ Chinmay Khamkar bearing Roll No 1122230161 of course Product Design /branch Design (B.des) studying in 6th Sem-semester /year in this college/Institute is in the top 20% in the branch concerned by virtue of total marks secured.

He/She is a bonafide student of this college.


Signature of the Principal/Head of the Institute

Name: Dr. Sunan Deraola

Official Seal of the authority signing

Date of issue: 06/03/2026



Dean
School of Design
Dr. Vishwanath Karad
MIT World Peace University
Kothrud, Pune-411038.