

KRISHNA TRIVEDI

Aspiring R&D intern with a strong foundation in applied physics, materials characterization, and semiconductor devices, seeking hands-on research exposure in materials/physics-driven product development.



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<https://krishnatrivedi.vercel.app/>

EDUCATION

MSC APPLIED PHYSICS

CGPA/%: 74.87%

FTE MSU Baroda July 2023- June 2025

Core Coursework

- Quantum Mechanics
- Mathematical Physics
- Statistics & Computational Techniques
- Instrumentation & Electronics
- Non-Destructive testing of Materials
- Physics Of Semiconductor Devices
- Crystal Physics
- Modern & Fiber Optics
- Physics of Nano Materials

BSC PHYSICS

CGPA/%: 82.63%

Saurashtra University, Christ college Rajkot Oct 2020-May 2023

Core Coursework

- Thermodynamics & Statistical Mechanics
- Solid State Physics
- Fundamentals of Physical Application
- Modern Physics
- Optics
- Nuclear & Particle physics
- Atomic and Molecular physics
- Fundamentals of Chemistry

PROFESSIONAL EXPERIENCE

Studyflix (Educator) July-Present

- Competitive exam oriented Concepts (JEE, NEET, Olympiad)
- Strengthening analytical and problem-solving skills
- Physics for Classes 6-10 with emphasis on Olympiad

American School of Baroda (Educator) July-Dec 2025

- Taught Physics for Classes 11-12
- Covered Core Theory & conducted Practical Lab sessions & Assessments

INTERNSHIP

Training Program on VLSI Design Semiconductor Process Technology & Packaging

SVNIT, SURAT June-july 2025

- Practical exposure of IC Fabrication Processes & Semiconductor Devices
- Developed hands-on experience in Device Modeling, Simulation
- Analysis using TCAD S/W
- Worked with industry-standard EDA Softwares
- CADENCE & VIVADO for design & verification

Sunton Ceramic Industry, Morbi

Basic production line training February 2023

- Learned marketing, data analysis, manufacturing of Tiles
- Observed quality testing & research activities in the Lab
- Understood raw material processing & production flow
- Marketing strategies, supply chain operations, and basic data analysis used in the ceramic industry

KEY SKILLS

Content Creation

Requirement Gathering

Coordination

Drafting

Critical Thinking

PROJECTS & ACHIEVEMENTS

Crystallography Research Project

Applied Physics Department FTE MSU BARODA

- Successfully synthesized pure APB crystals & further grew variant
- APB crystals using seed crystal technique
- Characterization using XRD, UV visible Spectroscopy
- Analysed crystallographic data
- Study structural & optical properties
- Explored potential applications in relevant material sciences

Ultrasonic Analysis of Material Absorption & Attenuation

CPEX (Presented at State Level Science Project Competition Patan, Gujarat)

- Presented at State Level Competition
- Investigated Absorption & Attenuation
- Observed various materials in different mediums using Ultrasonic Sound Waves (USW)
- Observed how materials respond to USW transmission in various environment

Space Odyssey of Bharat 2024

Organized by FTE MSU Baroda

- Got 2nd rank in Model presentation on Aditya L1
- Also worked as event management
- Discussion with ISRO Scientists about space missions R&D work

CERTIFICATES

- Space Technology & Aeronautical Rocketry
- Mass Spectroscopy and its Applications to Space

LANGUAGES

Gujarati, Hindi
Full Professional Proficiency

English
Professional Working Proficiency

INTERESTS

Singing

Drawing

Dancing

Badminton

Writing Poetry & Story

Reading

