ZARANA R. BARAIYA
(M): +918866409457,
E-Mail: zarana67@gmail.com

2025

OBJECTIVE

Seeking a challenging position which stimulates my technical knowledge and skills, to achieve career goals and contribute towards organizational success.

SYNOPSIS

Young, energetic and result oriented professional with comprehensive experience in project making; self-motivated, hardworking, dedicated with ability to understand and meet the time lines; highly ambitious and very good understanding of the organizational needs. A solid understanding of projects fundamentals; significant exposure in troubleshooting problems and increasing the uptime of system.

- Excellent project handling skill with proven ability to lead and motivate teams to maximize output result.
- Working in team, training and updating team
- Technology savvy self-starter, adept at moving into new environments and extrapolate from existing experience to quickly adapt to new technologies fluently.
- Possessing first rate communication and collaboration skills to lead and work in correct with diverse groups effectively.
- Excellent decision making skills with a positive approach.
- Excellent logical thinking.

EDUCATION

NAME OF THE EXAM	UNIVERSITY	YEAR OF PASSING	PERCENTAGE /GRADE	DIVN./CLASS	SUBJECT TAKEN
B.Sc	VEER NARMAD SOUTH GUJARAT UNIVERSITY	2011	54.80%	2st	Physics, Maths
M.Sc	VEER NARMAD SOUTH GUJARAT UNIVERSITY	2013	4.05/6.00	1st	Physics
B.Ed	VEER NARMAD SOUTH GUJARAT UNIVERSITY	2014	8.40/10.00	Dist.	Science, Maths
M.Phil	VEER NARMAD SOUTH GUJARAT UNIVERSITY	2020	7.67/10.00	Dist.	Theoretical physics
Ph.D	VEER NARMAD SOUTH GUJARAT UNIVERSITY		Pursuing		Material Science

I have cleared my GSET Examination for assistant Professor in year 2020.

GSET: A Certificate offered by a state's Board of Gujarat SET, The Maharaja Sayajirao University of Baroda that certifies the eligibility for Assistant Professor.

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Basics of Physics

Modern Physics, Theoretical physics, Material Science, Vacuum System, Thin Films, and Nanotechnology.

CAREER HIGHLIGHTS

- Involved in project within working water level alarm during B.sc course.
- Satisfactorily completed project is "A STUDY OF CARATERIZATION Al AND ITO Thin Films" during M.sc course.
- Implementation of vacuum using vacuum coating units.
- Preparing a Thin Film, creating vacuum and exerting in troubleshooting.
- Satisfactorily completed Research on "A Fusion Cross-section for some heavy ion reaction using 3S-CMD model" during M.Phil course.

PERSONAL DETAILS

Name	: BARAIYA ZARANA RAMESHKUMAR
Date of birth	: 1st November, 1990
Gender	: Female
Hobbies	: Surfing Net, Reading, Listening Music, Playing Games
Nationality	: Indian
Language known	: English, Hindi, Gujarati
Mother tongue	: Gujarati
Marital status	: Married
Alternate address	: 172, Murli lake city, opp. Olpad CNG Pump, Near Olpad, DGVCL office, Moje Asnabad, Olpad, surat – 394540, Gujarat, India

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JOB EXPERIENCE

- Working as an asst. professor in Mahaveer Swami college of Engg. & Tech., Surat for 6 years and 4 months.
- Working as an visiting lecturer in Dr. S.S.Gandhy college of Engg., Surat for 6 months.
- Having enough & required working knowledge on use of computers, MS Office, & Internet Usage.

PAPER PRESENTATION

- Presented a paper on the topic "Fusion cross section for $^{16}O+^{28}Si$ reaction in 3-stage classical dynamical model" in international level conference on Nuclear Physics at Bhabha Atomic Research Centre, DAE Convention hall, Anushaktinagar, Mumbai-400094 on 12th December 2018.
- Presented paper with title," Synthesis of SnS Nanoparticles using Hydrothermal Method: Structural and Optical Characterization" at Virtual national Conference on Recent Technologies And Innovations In Electronics And Photonics (RTEP 2024) 9th–10th February, 2024, Organized by Department of Physics, Dr. Vishwanath Karad MIT World Peace University, Pune, Maharastra, India.
- Presented paper with title," Synthesis and Characterization of Tin Sulfide Nanoparticles by Hydrothermal Method" at Virtual national Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024) 15th-16th March, 2024, Organized by Department of Physics, Mechanical Engineering, Electronics and Communication Engineering, Sant Longowal Institute of Engineering and Technology, Deemed-to-be University under MoE ,Longowal, Punjab,India.
- Presented paper with title," Hydrothermal Synthesis of Tin Sulfide Nanoparticles for Photocatalytic Degradation of Methylene Blue" at 2nd International Conference on Recent Advancements in Materials Science and Nanotechnology-2024 (RAMAN-2024) 28th – 30th March, 2024,Organized by Faculty of Physics, Department of Electronics and Communication, Nirma University, Ahmedabad,Gujarat, India.

PUBLICATIONS

- Zarana Baraiya, Priyanka K. Mule, Nitin M. Shah, (June 2024) "Hydrothermal Synthesis of Tin Sulfide Nanoparticles for Photocatalytic Degradation of Methylene Blue". Springer Nature Interactions: Conference Proceedings: 245(1), article number 114.
- Krishna J. Joshi, Zarana Baraiya, Nitin M. Shah. (January 2025), "Synthesis of Strontium and Manganese co-doped hydroxyapatite nanoparticles by ultrasound-supported

hydrothermal technique and Taguchi design of experiments for biomedical applications" Ceramics International: 51(3), 3147-3162.

- Zarana Baraiya, Priyanka K. Mule, Nitin M. Shah, (June 2024) "Synthesis of SnS Nanoparticles Using Hydrothermal Method: Structural and Optical Characterization" Advances in Photonics and Electronics, Innovations for Smart and Sustainable Development by Springer E-book series Advances in Science, Technology & Innovation (ASTI), IEREK Interdisciplinary Series for Sustainable Development, 35-41.

DECLARATION

I declare that the above information furnished by me is true to the best of my knowledge and will present original document whenever your requirement.

Place – Surat
Date – __/__/_____

Yours Faithfully,
[*Baraiya Zarana R.*]