

SANGRAM SHIVAJIRAO BHOSALE
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Professional Summary

Dynamic educator, mechanical design specialist, and academic entrepreneur with over a decade of experience spanning higher education, industry, and international teaching engagements. Currently pursuing a PhD while actively mentoring students across global universities. Proven ability to integrate theoretical rigor with real-world applications, particularly in mechanical design, finite element analysis, and product development.

Academic & Teaching Experience

- ✓ Assistant Professor (Sept 2016 – May 2017) Dnyanshree Institute of Engineering Technology, Satara
- ✓ Lecturer (Feb 2012 – May 2012) Abhaysinhraje Bhonsle Institute of Technology, Satara
- ✓ Online & International Teaching (2017 – Present) Urownteacher

Delivered personalized and group online sessions for students from leading global universities:

- ✓ University of Toronto – Calculus, Advanced Engineering Mathematics
- ✓ University of Sydney – Advanced Fluid Dynamics
- ✓ University of Queensland – Mechanical Engineering
- ✓ Kuwait University – Engineering Economics, Additive Manufacturing
- ✓ RWTH Aachen University (Germany) – Finite Element Analysis, FEM Software
- ✓ Columbia University (USA) – Vector Mechanics, Advanced Dynamics
- ✓ UAE University – Project Planning & Management
- ✓ University of London – Advanced Dynamics

Additional programs:

- ✓ Engineering Economics – Chanakya Mandal (BMC Batch) & GCOE, Karad, MH India
- ✓ MATLAB & Simulation Training – DIET, Satara, MH, India

Industry Experience:

- ✓ Engineering Analyst (Aug 2014 – Sept 2016) Oceaneering International Services Ltd., Chandigarh
- ✓ Engineering Consultant & Product Developer (*Sept 2016 – Present*), *Urownteacher Consultant*
- ✓ Co-Founder and CEO, Educator – Vector Academy (Jan 2017 till date) www.vector-academy.org

Education

Qualification	Institution	Year	Performance
PhD (Pursuing)	University of Pune (SPPU)	2025–Present	Ongoing
M.Tech (Design)	IIT Delhi	2014	CGPA: 8/10
B.E. Mechanical	VPCOE, Baramati (SPPU)	2011	Distinction
HSC	YCIS, Satara	2007	Distinction
SSC	Saraswati High School	2005	Distinction

Technical Skills

- ✓ Simulation & Analysis: ANSYS, ABAQUS, LS-DYNA, ADAMS, ProCAST
- ✓ Design & Modelling: CATIA V5, SolidWorks, CREO, HyperMesh, AutoCAD
- ✓ Programming & Tools: MATLAB, APDL, MathCAD, C/C++ (basic), MS Office

Publications

Journal Articles

1. *Exploring Research Trends in the Use of Finite Element Analysis for Optimization of Stress Concentration Factors in Bars with Fillets*, Discover Mechanical Engineering, 2025
DOI: <https://doi.org/10.1080/15397734.2026.2627622>
2. *Regression Surrogate Modelling for Structural Optimization of Rear Underrun Protection Device (RUPD) for Trucks*
Mechanics Based Design of Structures and Machines, 2026
DOI: <https://doi.org/10.1007/S44245-025-00163-X>

Conference Paper

3. *Design of Experiments and Finite Element Evaluation of Stress Concentration in Stepped Flat Tension Bars with Shoulder and Double-Shoulder Fillets*, i-MACE 2025 (International Conference), 2025

 **Best Paper Award**

Book

- Co-authored a book for Marathi-speaking MPSC / UPSC aspirants titled “Arithmetic and Intelligence (IQ) Test”, published by Nirali Publication

Industrial & Academic Projects

- PhD Thesis: Investigation of Stress Concentration Factor for Combined Effect of Geometric Parameters of Tension Bars
- MTech Thesis: Design & Development of Groundnut Harvester
- Assistive Technology: DRUSHTI (GPS-enabled aid for visually impaired), IIT Delhi
- Robotics: Coconut harvesting robotic arm prototype, IIT Delhi
- Product Design: Design, optimization of modern cleaning cart is carried out for Dubai Municipal Corporation
- Product Development: Design & Development Self-propelled Onion Harvester for DIET, Satara

Key Engineering Projects (Industry)

- Bend limiter analysis (BP, Apache Corporation)
- Umbilical Distribution System (DNV standards)
- Armor pot structural integrity (Shell, Oceaneering Brazil)
- Fatigue analysis (BS 7608, DNV RP C203)
- Drop test simulations using LS-DYNA for British Petroleum Shah Deniz 2

Awards & Achievements

- ❖ Best Research Paper Award in i-MACE 2025 (International Conference)
- ❖ Best Reviewed Online Teacher/Trainer on Urownteacher.com (2021)
- ❖ Best Teacher Award (2018), DIET, Vector Academy
- ❖ SAE TIFAN National Competition – Runner Up (2016)
- ❖ Best Employee – Oceaneering (2015)
- ❖ Best MTech Project – IIT Delhi (2014)
- ❖ MHRD Scholarship Recipient (IIT Delhi) Scored 99.45 percentile in GATE 2012 (ME)
- ❖ Session Manager – Asian Conference (IIT Delhi)

Personal Details

- ✓ Languages: English, Hindi, Marathi
 - ✓ Nationality: Indian
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