RESUME

PERSONAL INFORMATION:

Name: Tanaji Balawant Shinde

Date of Birth: 15th November 1985

Permanent Address:

A/P- Kandalgaon, Tal-Karveer, Dist-Kolhapur,

State-Maharashtra, India, Pin-416013

Mobile Number: 09975334761

Email Id: tanaji1511@gmail.com

Gender: Male

PROFESSIONAL EXPERIENCE:

- **Greaves Cotton Limited Aurangabad**

  Project Trainee for six months at Greaves Technology Centre Aurangabad, Maharashtra from 1st August 2010 to 28th February 2011

- **Lovely Professional University, Punjab**

  Worked as Assistant Professor in lovely school of mechanical and thermal engineering, department of mechanical engineering, Lovely Professional University, Jalandhar, Punjab from 21st July 2011 to 29th June 2012

- **Sanjay Ghodawat University, Kolhapur formerly known as SSDGCTs, Sanjay Ghodawat Group of Institutions, Atigre, Kolhapur**

  Worked as Assistant Professor in Sanjay Ghodawat University, Kolhapur from 5th July 2012 to 31st December 2023

- **Metropolitan Institute of Technology & Management, Sindhudurg**

  Working as Assistant Professor in MITM, Sindhudurg from 22nd August 2024 to till date.

EDUCATIONAL QUALIFICATION:

Exam / Degree	Month & Year of Passing	Name of Institute /College	Name of University/Board	Class/ Marks (% or CGPA)
PhD (Pursuing)	--	**VTU,** Belgaum	VTU, Belgaum	--
M.TECH. (Automobile Engineering)	July-2011	**N.I.T.** Warangal Andhra Pradesh	National Institute of Technology Warangal, A.P.	First Class
B.E. (Mechanical Engineering)	MAY-2009	**K.I.T.C.O.E.K.** Kolhapur Maharashtra	Shivaji University Kolhapur Maharashtra	First Class with Distinction
H.S.C	FEB -2004	The New college Kolhapur Maharashtra	Maharashtra State Board	First Class
S.S.C.	MARCH-2002	B.K.P. High school Girgaon, Kolhapur. Maharashtra	Maharashtra State Board	First Class

LANGUAGES KNOWN:

Marathi (Mother Tongue), English, Hindi.

COMPUTER/SOFTWARE SKILL:

Software's: Proficiency: - Vehicle Modeling and simulation using **ADAMS car/ADAMS Car software**

INDUSTRIAL TRAINING:

1. Training programme on Engine Testing & Performance Evaluation of single cylinder, four strokes Diesel Engine at Greaves Cotton Limited Aurangabad.
2. Project Trainee for six months at Greaves Cotton Limited Aurangabad.

CO-CURRICULAR ACTIVITIES:

1) National Level paper presentation at Rajarambapu institute of technology Rajaramnagar, Kolhapur Quantum 08 on Water as Alternative Fuel of Future.
2) Participated in one week Engineering Thermodynamics coordinator's workshop conducted by IIT Bombay held on 21st -23rd Nov 2012
3) Worked as Workshop Coordinator at Sanjay Ghodawat Institute for Two-Week ISTE Workshop on Engineering Thermodynamics Under the National Mission on Education Through ICT (MHRD, Govt. of India) from 11th – 21st December 2012 Conducted by IIT Bombay
4) Participated in one-week STTP on Introduction to Aircraft Industry & Aircraft system at Infosys Ltd. Mysore on 6th – 10th May 2013
5) Participated in Two-week Fluid Mechanics workshop conducted by IIT Bombay held on 20th – 30th May 2014
6) Participated in Two Days Research Methodology workshop at RMCET, Devrukh on 5th & 6th June 2014
7) Participated in Two-week ISTE STTP on Technical Communication conducted by IIT Bombay held from 8th Oct -5th December 2015
8) Participated in one-week STTP on Multi-body Dynamics analysis with ADAMS conducted by ADCET, Ashta
9) Participated in AICTE approved Faculty Development Programme (FDP101X) on Foundation Program in ICT for Education from 8th March 2018 to 12th April 2018
10) Participated in AICTE approved Faculty Development Programme (FDP201X) on Pedagogy for Online & Blended Teaching-Learning Process from 3rd May 2018 to 30th May 2018
11) Participated in Two Days proficiency Improvement Programme on Impact Testing: A Tool to Gain Early part Performance Jointly organized by ARAI & Instron on 18th & 19th September 2017 at ARAI-FID chakan
12) Participated in 3-Day Certificate Programme on Advanced Automotive Engineering at Karnatak Law Society's Gogte Institute of Technology, Udyambag, Belagavi Karnataka, from 23rd to 25th February 2017 Jointly organized by ARAI & GIT.
13) Participated and successfully completed 4-day virtual training on "Vehicle Modeling and Simulation using Adams Car" from March 15th to March 18th, 2021 conducted online by MSC Software Corporation
14) Successfully completed 07-AICTE ATAL FDPs on "Electric Vehicles"
15) Successfully completed Swayam-NPTEL Online Certification Courses

PROJECT WORKS:

PROJECT WORK DURING EDUCATION:

Sr. No.	UG/PG	Details of Project work
01	B.E.- Mechanical	Project Title: - Waste Heat Recovery from Domestic Refrigerator Details: - 1. To Develop Refrigerator Cum Water Heater 2. Testing and Experimentation on Heat Exchanger
02	M. Tech.- Automobile Engineering	Project Title: - Development of Port CNG Injection System for Dedicated CNG Engine Details: - 1. Conversion of Diesel Engine to Dedicated CNG Engine 2. Experimentation and Performance Testing on Developed CNG Engine

PROJECT WORK IN PROFESSIONAL EXPERIENCE:

Sr. No.	Academic Year	Title of Project work	Class Level
01	2022-23	Design and Development of Series Hybrid Electric Scooter	UG
02	2020-21	Sustainable Biodiesel Production Using Nano-Catalyst	
03	2019-20	Design and Manufacturing of Prototype Steam Boiler	
04	2018-19	Study of Performance, Combustion & Emission Analysis of Hydrogen-Diesel Dual Fuel Engine	
05	2017-18	1. Design & Development of Hybrid Two-Wheeler (Scooter) 2. Design & Fabrication of Multipurpose Husking Machine	
06	2016-17	Design & Development of Fluid Coupling for Efficient Transmission System of Scooter	
07	2015-16	Design and development of Rocker Boggie Suspension System	
08	2014-15	Design and Development of Bicycle for Optimum Performance by Using Kinetic Energy Recovery System and Suspension Wheel	
09	2013-14	Design And Development of Shaft Driven Bicycle	
10	2012-13	Waste Heat Recovery from Domestic Refrigerator	

PUBLICATIONS:

Research Papers:

International Journal-

1. Published research paper on "Experimental investigation on effect of combustion chamber geometry and port fuel injection system for CNG engine" in IOSR Journal of Engineering (IOSRJEN) ISSN-2250-3021, Volume-2, Issue-7, July 2012, PP-49-54.
2. Published research paper on "Experimental investigation of waste heat recovery System for domestic refrigerator" in International Journal of Mechanical Engineering and Technology (IJMET), ISSN-0976–6340 (Print), ISSN-0976–6359 (Online), volume-5, Issue- 8 (August2014), Pages-73-83
3. Published research paper on "A Review: Enhancement of Internal Combustion Engine Performance by using Nano-particles" in International Journal of Mechatronics and Manufacturing Technology Page-57-72, ManTech Publications 2017 Volume 2 Issue 2
4. Published research paper on "Study of Performance and Emission Analysis of Hydrogen-Diesel Dual Fuel Engine" in International Research Journal of Engineering and Technology (IRJET) Volume-6, Issue-5, May-2019 S.NO:242, Page NO.1214-1218
5. Published research paper on "Performance of biodiesel powered diesel engine with different injection strategies" in International Journal of Innovations in Engineering Research and Technology [IJIERT], Novateur Publications, 2019/3
6. Published research paper on "Design of Fluid Coupling for Efficient Transmission for Mopeds" in International Research Journal of Engineering and Technology (IRJET), Volume5, Issue-02, Pages-727-730
7. Published research paper on "Production of biodiesel using C3N4-CaO produced from waste eggshell as a catalyst" in Journal of Emerging Technologies and Innovative Research (JETIR) Volume 9, Issue8, Pages-218-222, 2022
8. Published research paper on "The Effect of Hydrogen Enrichment & Variable Compression Ratio on the Emissions of Hydrogen-Diesel Dual Fuel Engine" in Elsevier SSRN 4108340, 2022
9. Published research paper on "Rolling Element Bearing Fault Detection by Vibration Measurement" in IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), Volume-19, Issue-3, Pages-1-8, 2022
10. Published research paper on "Study of Performance and Emission Analysis of Hydrogen-Diesel Dual Fuel Engine" in International Research Journal of Engineering and Technology (IRJET), Volume-06, Issue-5, Pages-1214-1218

11. Published research paper on "Optimization of Cutting Parameters in Rough Turning using Taguchi Method" in Asian Review of Mechanical Engineering, pages-31-41
12. Published research paper on "Automatic Braking System using Ultrasonic wave" in International Journal for Research in Applied Science & Engineering Technology (IJRASET) Volume-10, Issue-VI, June 2022
13. Published research paper on "Development of Series Hybrid Electric Scooter" in International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 07 Issue: 06 | June – 2023

International Conference-

1. Published research paper on "The Effect of Hydrogen Enrichment & Variable Compression Ratio on the Emissions of Hydrogen-Diesel Dual Fuel Engine" at 7th International Conference on Innovations and research in Technology & Engineering, Vasantdada Patil Pratishtans College of Engineering and visual arts, Mumbai Held during 8th and 9th April 2022.Paper Id: T4-406

National Conference-

1. Published research paper on "Enhancement of Engine Performance by Addition of Nano-Particles in Lubricating Oil" at 25th National Conference on Internal Combustion Engines and Combustion NITK, Surathkal. Dec 15th – 17th 2017.Paper Id:25NCICE078

AWARDS & APPRECIATIONS:

- Best Paper award for research paper title "The Effect of Hydrogen Enrichment & Variable Compression Ratio on the Emissions of Hydrogen-Diesel Dual Fuel Engine" at 7th International Conference on Innovations and research in Technology & Engineering, Vasantdada Patil Pratishtans College of Engineering and visual arts, Mumbai Held during 8th & 9th April 2022.Paper Id: T4-406

BOOKS PUBLICATIONS:

1. Published Research work as a book on "Development of dedicated CNG engine for optimum performance" in "Lambert Academic Publishing" project number 63161, and ISBN 978-3-659-21439-4.
2. Published Research work as a book on "Waste Heat Recovery from Domestic Refrigerator" in "Lambert Academic Publishing" and ISBN 978-3-659-60811-7.

EXPERIENCE OF ORGANIZING EVENTS SUCH AS, WORKSHOPS, SEMINARS AND CONFERENCES:

Sr. No.	Name of workshop/ seminar/ conference	Details
01	Workshop on Engineering Thermodynamics for Faculty	Worked as workshop Coordinator for Two-Week ISTE Workshop on Engineering Thermodynamics conducted by Indian Institute of Technology Bombay from 11th to 21st December 2012
02	Workshop on "Vehicle Modeling and Simulation Using Adams Car" for faculty	Conducted workshop on ADAMS Car Software at Sanjay Ghodawat University Kolhapur from 05th to 7th August 2021 and from 27th June 2022 to 01st July 2022
03	Workshop on "Autonomous Car" for students	Worked as Workshop Coordinator
04	Workshop on "Autotronics" for students	Worked as Workshop Coordinator

DEMONSTRATED EXPERIENCE IN LEADERSHIP:

1. Worked as Departmental Research Coordinator
2. Worked as first year Coordinator and first year Moodle Coordinator (LMS)
3. Worked as Senior Supervisor for exam section
4. Worked as faculty advisor for SAE club
5. Worked as Departmental Research Criteria Coordinator for NAAC & NBA

SUBJECT TAUGHT:

UG Level			
Sr. No.	Name of Subject	Sr. No.	Name of Subject
01	Basic Mechanical Engineering	06	Internal Combustion Engine
02	Thermodynamics	07	Automobile Engineering
03	Applied Thermodynamics	08	Automotive Diagnostics
04	Fluid Mechanics	09	Advanced Internal Combustion Engine
05	Fluid & Turbo machinery	10	Electric Vehicles
PG Level			
01	Vehicle Dynamics		

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Place: Kolhapur **Sign:** **Date:**