



## RESUME

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### Permanent Address:

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Kathora Naka, Amravati

444601, Maharashtra

## Summary

I have completed my M.E. (Mechanical – Heat Power Engg.) from Govt. College of Engineering, Karad (Shivaji University) & B.E from Government College of Engineering, Amravati, (Amravati University). I have 1.5 years of experience as a 'Trainee Quality Engineer' in 'Radheya Machining Ltd. Sanaswadi', which is an ISO 9002 Organization and manufactures automobile components. I am well familiar with CATIA V5R10, Auto CAD, Ansys, Solid Works, Solid-Edge and Mat-lab software's. I have experience of 6 years of teaching to diploma students and 5 years to UG and PG students. Two students has completed their dissertation under my guidance and currently guiding four PG students.

Academic Record				
Year	Course	Board / University	% Marks	Division
2007	M.E. (Mechanical -Heat Power Engg.)	Shivaji University/ Govt. College Of Engg. Karad	74.80	First class with distinction
2003	GATE-2003	Organized by IIT, Madras	85.41	Percentile
2002	B.E. (Mechanical)	Amravati University, Govt. College of Engg. Amravati	70.80	First Class
1998	HSC (XII)	Maharashtra State Board	89.33 %	First class with distinction
1996	SSC (X)	Maharashtra State Board	77.06%	First class with distinction

## **Seminar During Graduation**

1. Methanol Vehicles

## **Seminar During Post-graduation**

- Flow characteristics of fibrous porous media.
- Flow and Heat Transfer correlation for porous fin in a plate fin heat exchanger.
- Snow Microstructure, Metamorphism and Thermal Conductivity Model.

## **Projects during Graduation**

- HC & SFC reduction using **Selective Exhaust Gas Recirculation** in two strokes SI engine.

## **Dissertation during Post-graduation**

- Metamorphism dependant micro-structural model for effective thermal conductivity of Snow (Sponsored by **Institute of Armament Technology, DRDO, Pune**)

## **Book Publication**

1. "Fluid Mechanics and Machinery", S. Chand Publication, ISBN : 81-219-4024-9, Code: 10534A, Year of Publication: 2012.

## **Paper Publications**

### **❖ International Journals**

1. "Computer Aided Fixture Design: A Review", International Journal of Advanced Engineering Research and Technology "IJAERT", ISSN No: 2348-8190, Vol. 2 Issue 1, April 2014, pp. 33-36.
2. "Finite Element Analysis of a Developed Fixture for Shot Blasting and Zinc Coating Operation", International Journal of Engineering Research and Technology "IJERT", ISSN: 2278-0181, Vol. 3 Issue 9, September 2014, pp. 589-591.

3. "Multi objective optimization of turning process parameters for EN353 material using Taguchi based Grey relational analysis", International Journal of Engineering and Management Research "IJEMR", Vol. 05, Issue 03, June 2015, pp. 789-796.
4. "Effect of Activating Flux on Gas Tungsten Arc Welding and Plasma Arc Welding for Stainless Steel", International Journal for Scientific Research and Development, "IJSRD" e-Journal ISSN (online): 2321-0613, Vol. 05, Issue 02, April 2017, pp. 2188-2190.
5. "Multi objective Optimisation of Process Parameters in TIG Welded Joints of Mild Steel", International Journal for Scientific Research and Development, "IJSRD" e-Journal ISSN (online): 2321-0613, Vol. 05, Issue 05, July 2017, pp. 384-389.

❖ **National Journals**

1. "Microstructure Based Model for Effective Thermal Conductivity of Snow", Indian Journal of Pure and Applied Physics, Vol 47, March 2009, pp. 206-211.
2. "Analysis of a Combustion, Performance and Emission Characteristics of a CNG-B20 Fuelled Diesel Engine under Dual Fuel Mode", Carbon Science and Technology, Vol. 8, Issue: 03, May 2016, pp 52-59.

❖ **International Conferences**

1. "**Heat Transfer Mechanisms in Nanofluids**", Presented at International Conference on "**Advances in Manufacturing and Technology Management**", organized by Parshvanath college of Engineering, Thane in association with University of Mumbai.(18/01/07 to 20/01/07)
2. "Analysis of a Combustion, Performance and Emission Characteristics of a CNG-B20 Fuelled Diesel Engine under Dual Fuel Mode", Presented at International Conference on 'Alternative Energy Sources' 'ICAES-2016' organized by Birla Institute of Technology, Mesra, Ranchi-835215, Jharkhand. (29 and 30 Jan 2016)

## ❖ National Conferences

1. **“Metamorphism Dependant Micro-structural Model for Effective Thermal Conductivity of Snow”**, presented at National Conference on **“Innovations in Mechanical Engineering IME-2007”**, organized by J. T. Mahajan College of Engineering, Faizpur, Dist: Jalgaon. (29/03/07 to 30/03/07)
2. **“Mathematical Models for Effective Thermal Conductivity of Snow”**, presented at National Conference **“NCME-2007”**, organized by ShriRam College of Engineering and Management, Banmore, Gwalior. (28/04/07 to 29/04/07)
3. **“Mechanisms of Heat Transfer in Nanofluids”**, presented at National Conference **“PGFEST-2007”**, organized by NMAM Institute of Technology, NITTE, Udupi, Karnataka. (28/04/06 to 29/04/06)
4. **“Condition Monitoring of Reciprocating Air Compressor Using Infrared Thermography”**, presented at National Conference **“NCME-2007”**, organized by ShriRam College of Engineering and Management, Banmore, Gwalior. (28/04/07 to 29/04/07)

## Software knowledge

- MAT-LAB
- Modeling/Drafting Software's : CATIA V5 R13, Auto CAD, Solid Works
- ANSYS, Pro-E
- Solid-Edge

## Post Graduate Dissertation work completed under my Guidance:

1. “Design and Development of Fixture for Holding the Gun Used in Blasting and Zinc Coating Operations for Flow Tubes”, by Mr. Rahul M Jadhav, ME12F11F004, Sponsored by Endress and Hauser Flowtec Ind. Ltd. Aurangabad, Completed on 10/01/2015, External Examiner was Prof B A Patil , Asst. Prof. , Government College of Engineering, Avsari.
2. “Multi objective optimisation of turning process parameters for EN353 material using Taguchi based Grey relational analysis” by Mr Rahul Saindane, ME13F11F15 completed on 14/10/2015, External Examiner was Dr V B Tungikar, Professor, Production Engineering Department, Shri Guru Gobind Singh College of

Engineering, Nanded. The experimental work was carried out at Indo-German Tool Room, Aurangabad.

3. "Effect of Activating Flux on Plasma Arc Welding for Austenetic Stainless Steel", by Mr Mangesh S Kulkarni, ME14F11F007 completed on 07/08/2017, External examiner was Dr A M Nikalje, Asso. Professor, Government College of engineering, Jalgaon. The experimental work is carried out at Endress and Hausser Flowtech India Pvt Ltd. Waluj, Aurangabad.
4. "Multi Response Optimisation of Process Parameters for TIG Welding of IS 2062 Mild Steel" by Vaibhav V. Nemane, ME15F11F009 completed on 07/08/2017, External examiner was Dr A M Nikalje, Asso. Professor, Government College of engineering, Jalgaon. The experimental work is carried out at RD Engineering Pvt. Ltd. Waluj, Aurangabad.

#### **Membership of professional bodies:**

1. Lifetime member of The Indian Society for Technical Education. (Membership No: LM 80215)

#### **Work Experience**

1. **Company** :- Radheya Machining Ltd. Sanaswadi, **Pune**  
**Designation** :- **Trainee Quality Engineer**  
**Duration** :- **1.5 year**

**Company Profile:-** Radheya Machining Ltd., Sanaswadi is a manufacturing firm, produces Automobile Components like Gears blanks and Gears.

#### **Activity Handled:**

- # Ensure the quality of products manufactured meet the product specification.
- # Monitoring of In-process quality to eliminate problems.
- # Preparation of daily rejection reports.
- # Control of measuring instrument & gauges.
- # Work closely with production department in achieving production targets by continually supporting the production team.
- # Continuous improvement activities to improve product quality and throughput, scrap reduction and cost reduction goals.
- # Making list & control of drawing & updating it.

2. **Institute** :- Government College of Engineering, **Karad**  
**Designation** :- Teaching Assistant in Mechanical Engg. Department  
**Duration** :- **1.5 year**

3. **Institute** :- Government Polytechnic, **Osmanabad**

**Designation** :- Lecturer in Mechanical Engg. Department  
**Duration** :- 1.5 year

**4. Institute** :- Government Polytechnic, **Washim**  
**Designation** :- Lecturer in Mechanical Engg. Department  
**Duration** :- 2.5 year

**5. Institute** :- Acharya Shrimannarayan Polytechnic, **Wardha**  
**Designation** :- Lecturer in Mechanical Engg. Department  
**Duration** :- 1 year 08 Months

**6. Institute** :- Government College of Engineering, **Aurangabad**  
**Designation** :- Assistant Professor in Mechanical Engg. Department  
**Duration** :- 5 year 10 Month

**Trainings Attended:**

Sr No	Course Name	From	To	organising Institute/ Agency
<b>Academic year 2008-09</b>				
1	Computer Aided Drafting	16-Jun-08	21-Jun-08	Government Polytechnic, Amravati
<b>Academic year 2009-10</b>				
2	Induction Program Phase-I	26-Oct-09	06-Nov-09	NITTTR,Extension Centre, Pune
	Induction Program Phase-II	12-Apr-10	23-Apr-10	NITTTR,Extension Centre, Pune
<b>Academic year 2010-11</b>				
3	CAD/Cam through AutoCAD/CATIA/ Pro-E/UG-NX-6.5	13-Sep-10	24-Sep-10	Central institute of Plastic Engineering and Technology, Aurangabad
<b>Academic year 2011-12</b>				
4	Skill matrix enhancement and effective teaching learning for quality technical education.	28-Nov- 11	09-Dec-11	Government college of Engineering, Aurangabad (ISTE approved)
	Engineering Optimisation techniques and its application in Research EOTAR-2012	02-Jan-12	12-Jan-12	Government college of Engineering, Aurangabad (ISTE approved)
<b>Academic year 2012-13</b>				
5	Self Management and Team Management- Breaking the Barrier	18-Sep-12	18-Sep-12	Govt. College of Engg. Aurangabad

	E-learning tools and technologies in PG education	29-Oct-12	02-Nov-12	Government College of Engineering, Amravati
	Genetic Algorithm and Neurofuzzy applications in Engineering "GANEUFAE-2012"	17-Dec-12	21-Dec-12	Government college of Engineering, Aurangabad (ISTE approved)
	New trends for Teachers in Digital Age	04-Feb-13	08-Feb-13	Government Polytechnic, Amravati
	Performance Improvement and Emmission reduction of Internal Combustion Engines using alternative fuels	13-May-13	17-May-13	IIT Delhi
<b>Academic year 2013-14</b>				
6	Combustion Modelling and Diagnostics	7-Oct-13	11-Oct-13	IIT Indore
	Management of Renewable Energy Technologies	02-Dec-13	06-Dec-13	IIT Delhi
	Enhancement of material properties by nanotechnology	07-Feb-14	08-Feb-14	College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan.
<b>Academic year 2014-15</b>				
7	Recent Advancse in Utilisation of Hydrogen in Internal Combustion Engines	7-Jul-14	11-Jul-14	IIT Delhi
	Use of Design Softwares in Mechanical Engineering	08-Dec-14	19-Dec-14	NITTTR Bhopal
	Certified Cleanroom Professional	01-Apr-2015	04-Apr-2015	ISHRAE Ahmadabad Chapter
	Effective Mentoring of Online Students in Thermodynamics-WME209X	05-Feb-2015	29-Apr-2015	IIT Bombay (online) @ <a href="http://www.iitbombayx.in">www.iitbombayx.in</a>
	Two Phase flow, Boiling and Condensation: In Conventional and Miniature Systems	01-Jun-15	05-Jun-15	IIT Roorkee
	Computer Aided Product Design	15-Jun-15	27-Jun-15	SSN College of Engineering, Kalavakkam – 603110, Chennai Tamil Nadu, India
<b>Academic year 2015-16</b>				
8	STP: Foundation Training Programme for Class-I officers of	30-Jun-15	20-Jul-15	Yashwantrao Chavan Academy of Development Management,

	Technical Education Department			“YASHADA” Baner Road, Pune
	Advancements in Energy Conservation, Environment Protection and Productivity Enhancement Techniques	28-Sep-15	02-Oct-15	Government College of Engineering, Amravati
	Computer aided product design and development	13-Oct-15	15-Oct-15	Government College of Engineering, Aurangabad
	Pedagogy to Synergogy	07-Dec-15	11-Dec-15	Government College of Engineering, Aurangabad
	Exposure on MatLab	28-Dec-15	08-Jan-16	National Institute of Technical Teachers Training and Research, Kolkata
	COMSOL Multiphysics CFD and Heat Transfer	21-Apr-16	22-Apr-16	COMSOL, Hinjewadi, Pune
	Bioheat Transfer	06-Jun-2016	17-Jun-2016	IIT Bhubaneswar (GIAN)
<b>Academic year 2016-17</b>				
9	Advancement in Industrial pollution control Techniques	22-Aug-2016	26-Aug-2016	Govt. College of Engineering, Amravati
	Computation and Optimization with MATLAB	26-Dec-2016	06-Jan-2017	NITTTR, Kolkata
	Fuels and Combustion	20-Feb-17	24-Feb-17	GECA in Collaboration With IIT Bombay
	3D Printing: A Disruptive Technology of this Era	20-Mar-17	22-Mar-17	GECA in Collaboration With IIT Bombay
	Computational Fluid Dynamics: Development, Application, Analysis	08-Mar-17	12-Mar-17	GECA in Collaboration With IIT Bombay

### Other Achievements

- University Topper in First two semesters of ME from Shivaji University.
- Have passed Elementary Grade Drawing Examination.
- Have represented the class from 5<sup>th</sup> to 10<sup>th</sup> standard and also during ME.
- Have won the First Prize for scoring highest marks in HSC from Mali Seva Samitee, Amaravati.



- Project “Unconventional Water Heater” guided by me has been selected for “**DIPEX-2007**” competition.
- Technical paper “ Wireless world of Automation” presented by Mr. A R Lande, guided by me, presented at “ **PROBE2K9** ” 2<sup>nd</sup> national level technical paper presentation and quiz contest organized by PVPIT, Budhagaon, Sangali, has won first prize.
- Project “Solar Water heater using plastic containers” guided by me during 2015-16 has won the **Gopalrao Kandlikar Beat Project Award** for year 2015-16.

### **Personal Information**

**Date of Birth:** 04<sup>th</sup> June 1981

**Gender:** Male

**Marital Status:** Married

**Languages Known:** Marathi, Hindi, and English.

### **Declaration**

I hereby declare that all the information furnished above is true to the best of my knowledge.

**Place:** Aurangabad

**Date:** 30/08/2017

**(Wasankar Kushal Suresh)**