

CURRICULUM VITAE

Name: Vaibhav Subhash Gaikwad

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Date of Birth: 11/03/1991

Language Known: English, Hindi, Marathi.

Career Objective

Seeking a position to utilize my skills and abilities in an organization that offers security, self-assurance and professional growth while being resourceful, innovative and flexible.

Educational Qualifications

B.E (Mechanical), M.Tech (CAD/CAM)

Qualification	Institute	University	Performance
M.Tech (CAD/CAM) (August 2015)	Symbiosis Institute of Technology, Pune	Symbiosis International University	3.484 out of 4
B.E. (Mechanical) (July 2013)	N.D.M.V.P College of Engineering, Nashik	Pune	68%
H.S.C (June 2009)	S.M.V Junior College, Yeola Dist- Nashik	Pune	83%
S.S.C (June 2007)	Sanjavani Sainiki School, Kopergaon Dist-A'Nagar	Pune	80.46%

Work Experience

Total- 2 Year 1 Month (UG: 2 Year 4 Month)

1) **K. K. Wagh Institute of Engineering Education and Research, Nasik, Since 9th October 2015 (Currently Working).**

Subject Taught

- **Under Graduate Level**
 - 1) **Basic Mechanical Engineering**
 - 2) **Heat and Fluid Engineering**
 - 3) **Mechanics of Materials**
 - 4) **Surface Engineering**
- **Post Graduate Level**
 - 1) **Lab Practice II**

Key Responsibility Handle

- 1) Work in Editorial board of International Conference on Manufacturing Excellence 2017.
- 2) Departmental N.B.A and NAAC criteria no. 2.
- 3) Departmental Library In-charge.
- 4) Data Entry Officer in Central Assessment Processes of Production Engineering Department, of K. K.Wagh Institute of Engineering Education and Research, Nashik.

Publications

Citation Index: 06

h-index: 01

Journals (Total: 05)

- [1] **V.S. Gaikwad**, V.S. Jatti, Optimization of Material Removal Rate during Electric Discharge Machining of NiTi alloys Using Taguchi Method, Journal of King Saud University: Engineering Sciences.(<http://www.sciencedirect.com/science/article/pii/S1018363916300083>)(**Elsevier publisher**)
- [2] **V. S. Gaikwad**, V. S. Jatti, and T. P. Singh, Electric Discharge Machining of Cryo-treated NiTi Alloys, Journal of Applied Mechanics and Materials, 787, 366-370, (2015). <http://www.scientific.net/AMM.787.366> (**Trans Tech, Switzerland**)
- [3] **V. S. Gaikwad**, V. S. Jatti, , Electric Discharge Machining of NiTi Alloys by using Cryo-treated copper electrode, International Journal of Applied Chemistry, 11(2), 155-161 (2015). <http://www.ripublication.com/Volume/ijacv11n2.htm>
- [4] **V. S. Gaikwad**, V. S. Jatti, and T. P. Singh , Electric Discharge Machining Of Cryo-Treated NiTi Alloy By Cryo-Treated And Untreated Copper Electrode, Journal of Chemical and Pharmaceutical Research, 7(7), 210-215, (2015). <http://jocpr.com/vol7-iss7-2015/JCPR-2015-7-7-210-215.pdf>
- [5] **V. S. Gaikwad**, Vijaykumar S. Jatti, Multi-objective Optimization of Electrical Discharge Machining Process during Machining of Shape Memory Alloy using Taguchi and Utility Concept, Current Science. (**Communicated**)

International Conference (Total: 01)

- [1] **V. S. Gaikwad**, Vijaykumar S. Jatti, Mangesh Y. Khalkar ,Effect of Cryo-treated NiTi Alloy and Copper Electrode on Electric Discharge Machining Performance Measures, In: Proceedings of International Conference on Manufacturing Excellence, 3-4 March 2017.

National Conference (Total: 01)

[1] **V. S. Gaikwad**, Vijaykumar S. Jatti, A review on Abrasive Water Jet Machining, National Conference on Recent trends in Manufacturing and Production Engineering, 19-20 December 2017.

Workshops/Seminars attended

Sr. No.	Title of Workshop/Seminar/STTP	Organizer	Date
1	Optimization aspects of Robotics and Computer Integrated Manufacturing	K.K.Wagh Institute of Engineering Education and Research, Nashik	16th to 20th January 2016
2	Condition Monitoring of Rotating Machinery Using Vibration Analysis	Sanjavani Rural Education Society's Sanjavani College of Engineering, Kopergaon	6 th October 2016
3	Syllabus Revision of TE (Production/Production SW/Industrial Engineering)	K.K.Wagh Institute of Engineering Education and Research, Nashik	10 th October 2016
4	Soft Computing Applications in Engineering	K.K.Wagh Institute of Engineering Education and Research, Nashik	8 th -10 th December 2016
5	Faculty Development Program on Competitive Manufacturing Technologies	Amrutvahini College of Engineering, Sangamner.	11-22 December 2017
6	Interdisciplinary workshop on Artificial Intelligence: Research and Applications	K.K.Wagh Institute of Engineering Education and Research, Nashik	6-7 January 2018
7	B.E. Syllabus Revision & Implementation of Production, Production S/W & Industrial Engineering (2015 Credit Course)	Sinhgad College of Engineering, Pune	8 th February 2018

Project Work

M. Tech.

Title: MATHEMATICAL MODELING AND OPTIMIZATION OF EDM PROCESS PARAMETER USING TAGUCHI AND UTILITY CONCEPT.

Problem Statement: Mathematical modeling and optimization of EDM process parameters during machining of meso-scale square holes on nickel titanium workpiece.

Objectives:

- 1) Improving the electrical conductivity of workpiece and tool electrode by cryogenic treatment.
- 2) Selection of levels of electrical discharge machining parameters by conducting preliminary experiments.
- 3) Developing mathematical model for material removal rate and tool wear rate using dimensional analysis.
- 4) Identification of significant process parameter that influences EDM performance measures using Taguchi's and analysis of variance method.
- 5) Finding optimal setting of electric discharge machining parameters for maximization of material removal rate and minimization of tool wear rate.
- 6) Multi-objective optimization using utility concept (MRR & TWR).

B.E

Title: SET UP TIME REDUCTION AND SIMPLICITY IN OPERATION OF VMC MACHINE.

Software Skill

Hypermesh, Ansys, Pro-E, Matlab, Minitab and Overview of Catia V6

Life Member of Professional Bodies

- 1) Associate Member of Institution of Engineers
- 1) Indian Society of Technical Education (Life Member)

Achievements

- 1) Ranked 2nd in M.Tech (CAD/CAM) at Symbiosis International University
- 2) Qualified Ph.D. entrance test of Savitribai Phule Pune University, Pune (October 2017)
- 3) Qualified Ph.D. entrance test of Mumbai University. (August 2017)

Area of Interest

CAD/CAM, Numerical Methods and Optimization, Vibration and Non conventional machining processes (Electrical Discharge Machining, Abrasive Water Jet Machining).

Declaration

I hereby declare that all the above facts are true to best of my knowledge.



Vaibhav S Gaikwad.