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## Sanjay D. Patil

### CAREER OBJECTIVE:-

To obtain a challenging technical position as deemed suitable to my skills and background and to become an effective team player in a progressive organization.

### Work Experience:- (10 Years)

**Industrial:** 4 years- From 08/08/2011 to 31/12/2015:

Assistant Engineering Manager- Lasen and Toubro Construction Ltd, Mumbai

**Academic:** 6 years from 01/01/2016 till date

- Assistant Professor in Mechanical Engg. Department at College of Engineering Pune, From 01/01/2016 to 3/10/2016.
- Currently working as Assistant Professor in Automobile Engg. Department at Government College of Engineering and Research, Avasari (Khurd) from 04/10/2016.

### Educational Details:-

- M. Tech. in Mechanical Engineering from SV National Institute of Technology, Gujarat in 2011 with 8.6 CGPA
- B.E. in Mechanical form North Maharashtra University, Jalgoan in 2009 with 67.28%.
- GATE 2009 qualified with 92 percentile.

### Publication in International Journals:-

TITLE OF RESEARCH PAPER	AUTHORS	VOLUME / ISSUE/ MONTH	JOURNAL NAME
Impact Energy Absorption Capability of Polygonal Cross-Section Thin-Walled Beams under Lateral Impact	Sanjay Patil, Arvind Bhosale, Vijaypatil Dhepe, Dheeraj Lengare, Ravi Kakde	Volume- 4 Issue-4 (2021)	International Journal of Innovative Research and Scientific Studies, ISSN: 2617-6548 DOI: 10.53894/ijrss.v4i4.96
Parameters Affecting the Specific Energy Absorption of Circular Side Impact Beam	Sanjay D. Patil, Dheeraj S. Lengare, Arvind J. Bhosale, Kiran B. Bansode, Rashtrapal B. Teltumade	Volume-9 Issue-3, February, 2020	International Journal of Engineering and Advanced Technology, ISSN: 2249 – 8958, DOI: 10.35940/ijeat.C6259.029320
Parameters of Side Intrusion Beam Affecting on Crash	Sanjay D. Patil, Vijaypatil Y. Dhepe, Dheeraj S. Lengare, Arvind J. Bhosale,	Volume-8 Issue-6, March 2020	International Journal of Recent Technology and Engineering , ISSN: 2277-3878, DOI: 10.35940/ijrte.F9765.038620

Force Efficiency During Impact	Rashtrapal B. Teltumade.		
Stress Measurement at Knee for Different Limb Alignment by Experimental and FEA	Kiran B. Bansode, Arvind J. Bhosale, Ravi P. Kakde, Vijay Y. Dhepe, Sanjay D. Patil	Volume-8 Issue-5, January 2020	International Journal of Recent Technology and Engineering , ISSN: 2277-3878, DOI:10.35940/ijrte.E6355.018520
Cylinder Bore Deformation Finite Element Analysis Methodology for Inline Engines and Parametric Optimization	Arvind J. Bhosale, Kiran B. Bansode, Ravi P. Kakde, Vijay Y. Dhepe, Sanjay D. Patil	Volume-8 Issue-5, January 2020	International Journal of Recent Technology and Engineering , ISSN: 2277-3878, DOI:10.35940/ijrte.C4755.018520
Factors Affecting Weld Line Movement in Tailor Welded Blank	Shakil A. Kagzi, Sanjay Patil, Harit K. Raval	Vol:8, No:6, 2014	International Journal of Industrial and Manufacturing Engineering DOI:10.5281/zenodo.1093243
Effects of Vortex Generators on Aerodynamic Drag Force in the Hatchback type Car	Sanjay D. Patil; Vikas T. Mujmule; Ajay P. Mahale; Suhas A. Jagtap; Ganesh S. Patil	Accepted	ARAI Journal of Mobility Technology ( accepted )

#### Publication in International/ National Conference:-

TITLE OF PAPER	AUTHORS	Date and Year	CONFERENCE TITLE	ORGANIZED BY AND LOCATION
Factors Affecting Weld Line Movement in Tailor Welded Blank	Shakil A. Kagzi, Sanjay Patil, Harit K. Raval,	June 16-17, 2014	ICMET 2014 : International Conference on Manufacturing Engineering and Technology	World Academy of Science, Engineering and Technology at Toronto, Canada
Parameters Affecting the SEA indicator of Circular Side Impact Beam: Study by Taguchi Method and ANOM	Sanjay D. Patil and Nilesh S. Gaikwad	November 25-26, 2020	Recent Trends in Mechanical Engineering	Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik

#### M.Tech Project:-

Title: INVESTIGATION ON TAILOR WELDED BLANK.

Description: Tailor welded blank (TWB) consist of two or more sheet having dissimilar or similar material and thickness; welded together to form a single sheet before forming it to desired shape. Forming of the tailor welded blank is affected by ratio of thickness of blanks, ratio of their strength, etc. mainly due to in-homogeneity of material. In the present work the relative effect of these parameters on weld line movement is studied during deep drawing of TWB using FE simulation using HYPERWORKS. The simulation is validated with results from the literature. Simulations were than performed based on Taguchi orthogonal array followed by the ANOVA analysis to determine the significance of these parameters on forming of TWB.

#### **Subject Taught:-**

- Finite Element Analysis
- Computer Aided Design and Drafting
- Numerical Method and Optimization
- Transport Management and Motor Industries

#### **Software Skills :-**

- Abaqus
- Ansys
- Hypermesh
- Catia

#### **Languages Known :-**

- Marathi, Hindi, English,

#### **Declaration Of Authenticity :-**

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

Date:

Mr. Sanjay Patil