

## RESUME

### **Dr. Shrishail B. Sollapur**

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#### **Contact Details**

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Site: <https://1267183.site123.me/>

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#### **ACADEMIC DETAILS**

<b>Education</b>	<b>University / Institute</b>	<b>Year</b>	<b>Percentage</b>
<b>PhD in Mechanical Engg</b>	KLS Gogte Institute of Technology, Belgaum	2020	Awarded
<b>Masters of Engineering</b> (Design Engg.)	K L E College of Engg. VTU Belgaum	2010	68 %
<b>Bachelors of Engineering</b> (Mechanical Engg.)	K L E College of Engg. VTU Belgaum	2008	61 %
<b>Diploma in Mechanical</b>	Maratha Mandal Polytechnic Belgaum	2005	53.54%

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#### **DOMAIN EXPERTISE**

Machine Design, Mechatronics, Finite Element Analysis.

#### **PRESENT POSITIONS**

- **Assistant Professor**  
Department of Mechanical Engineering  
**Faculty of Engineering and Technology**  
**Jain (Deemed-to-be University), Bengaluru(May 2021 till date)**
- Worked as **Assistant Professor (9Years 10 months)**  
Department of Mechanical Engineering  
Sinhgad Academy of Engineering, Pune  
(Web – <http://www.sinhgad.edu>)
- Worked as **Design Engineer (1 Year)**  
Able Engineering Hubali

## **UNIVERSITY APPROVAL**

UG and PG Approval

## **PROFESSIONAL MEMBERSHIPS OF BODIES**

- ✓ Life member of ISTE
- ✓ Association of Engineers and Member of IAENG Society of Mechanical

## **Reviewer for the Journals**

- ✓ Materials Today: Proceedings
- ✓ Walailak Journal of Science and Technology

## **AWARDS & ACHEIVEMENTS**

- ✓ Student's feedback is excellent for all taught subjects.

Teaching Experience : **10 years 07months**

Industrial / Consultancy Experience : **01 year**

**Total Experience : 11 years 07months**

## **RESEARCH EXPERIENCE**

### **Ph D –Mechanical Engineering**

Title- **Design & Analysis of X Y Flexure Mechanism for Precision Applications**

### **M. Tech Mechanical – Design Engineering.**

Title – **X Y Scanning Mechanism a Dynamic Approach**

## PATENT

SI No	Title	Applied Year	Granted Year
1	Design and Development of modified Steering rack assembly in modern vehicle for straight wheel alignment	Oct 2021	Waiting

## PUBLICATIONS

SI No	Year	International Journals
1	2013	“Finite Element & Experimental Investigation of Composite Torsion Shaft”, <i>International Journal of Engineering Research and Applications (IJERA)</i> ISSN: 2248-9622 Vol. 3, Issue 2, March -April 2013
2	2014	“X Y Scanning Mechanism A Dynamic Approach”, <i>International journal of Mechanical Engineering and Robotics Research</i> ISSN 2278 – 0149 <a href="http://www.ijmerr.com">www.ijmerr.com</a> Vol. 3, No. 4, October 2014.
3	2014	“Identifying Design Alternative For Piping System Upon Assessment Of Composite Material For Suitability To The Engineering Application”, In <i>International Journal of Advanced Engineering Research and Studies E-</i> ISSN2249–8974 III/IV/July-Sept.,2014
4	2015	“Investigation of Residual Stresses and Its Effect on Mechanical Behavior of AISI310” <i>International Journal Of Scientific Progress And Research (IJSPR)</i> ISSN: 2349-4689 Volume-12, Number - 03, 2015
5	2015	“Thermo-Mechanical Analysis of Crankcase”, <i>IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)</i> e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 12, Issue 5 Ver. V (Sep. - Oct. 2015), PP 13-18
6	2016	“Investigation of Residual stress in Welding and its Effect of Mechanical Behavior of Stainless Steel 310”, <i>Journal for Research   Volume 02   Issue 05   July 2016</i> ISSN: 2395-7549, PP 42-46.

- 7 2017 “Mechanical Properties of Bamboo Fiber Reinforced Plastics”, *IJSART* - Volume 3 Issue 9 –SEPTEMBER 2017 ISSN [ONLINE]: 2395-1052, Page | 365-368 [www.ijart.com](http://www.ijart.com) .
- 8 2017 “Three Point Bending Analysis of Honeycomb Sandwich Panels: Experimental Approach”, *International Journal of Engineering and Techniques* - Volume 3 Issue 5, Sep - Oct 2017, ISSN: 2395-1303 <http://www.ijetjournal.org> Page 189-193
- 9 2017 "A Review Paper On Flexure" *International Journal for Science and Advance Research In Technology*, Vol 3, Issue 10 , 2017. <http://ijsart.com/Home/IssueDetail/17669>
- 10 2018 “Experimental Investigation of High Precision XY Mechanism”, *International Journal of Mechanical Engineering and Technology*,9(5),2018,pp.43–50. <http://www.iaeme.com/IJMET/issues.asp?JType=IJMET&VType=9&IType=5>
- 11 2018 “Evaluation of Stiffness and Parametric Modeling of XY Flexure Mechanism for Precision Applications”, *Journal of Modeling and Simulation of Materials*, vol. 1, no. 1, pp. 8-15, May 2018. doi: 10.21467/jmsm.1.1.8-15
- 12 2018 Shrishail Sollapur, M S Patil , S P Deshmukh, “Advancement and Experimental Investigation of Voice Coil Actuator utilizing Flexural Bearing”, *Journal of Mechatronics and Automation, STM Journals, Vol 5, Issue 2, 2018. pp. 40-45*
- 13 2020 Shrishail Sollapur & Shraddha Gunjawate, “Structural Analysis and Topology Optimization of Leaf Spring Bracket”, *International Journal of Engineering Research & Technology (IJERT) Vol. 9 Issue 07, July-2020. pp. 1448-1494*
- 14 2021 Shrishail Sollapur, M S Patil, S P Deshmukh, “DESIGN AND EXPERIMENTAL TESTING OF XY FLEXURE MECHANISM”, *Journal of Engineering Science and Technology*, Taylor’s University, Malaysia. **[April 2021]**.
- 15 2021 Shrishail Sollapur, SB Anjappa, Malla, Prasad, “Tribological Properties of filler and green reinforced polymer composites”, *Material Today: Proceedings Elsevier Publications*

## NATIONAL CONFERENCE

<b>Sl No</b>	<b>Year</b>	<b>National Conference</b>
1	2012	Paper presented on “X Y SCANNING MECHANISM FOR PRECISION APPLICATION” a National Conference on Science & Technology, SB Patil College of Engineering Indapur Dist Pune.
2	2014	Paper on “CRANKSHAFT SYSTEM MODEL FOR STRUCTURAL DYNAMIC ANALYSIS OF 6 CYLINDER DIESEL ENGINE” a National conference on Advanced Technology and Innovations in Mechanical Engineering, Sinhgad Academy of Engineering Pune
3	2016	“Design of Compliant Mechanism” Second MECHPGCON 2016.

## INTERNATIONAL CONFERENCE

<b>Sl No</b>	<b>Year</b>	<b>International Conference</b>
1	2018	Presented paper on “Design and Development of Flexure Mechanism for High Precision Application” International Conference on Design, Materials & Manufacture 2018 at National Institute of Technology Karnataka, Surathkal, INDIA.
2	2018	Paper on “CONCRETE SOLAR COLLECTOR” 1 <sup>st</sup> Springer International Conference on Emerging Trends and Advance in Electrical Engineering and Renewable Energy, at Sikkim Manipal Institute of Technology, Majhitar, Sikkim, India.
3	2019	Shrishail Sollapur, M S Patil, S P Deshmukh, “PID Control Experimental Investigation on Voice Coil Actuator using Flexural Bearing”, <i>IEEE Xplore Digital Library</i> .

- 4 2019 Shrishail Sollapur, M S Patil, S P Deshmukh, “Position Estimator Algorithm Implementation on Precision Applications”, *Material Today: Proceedings Elsevier Publications*. ISSN: 2214-7853.
- 5 2019 Shrishail Sollapur, M S Patil, Kalyani Chaporkar, Aditya Misal, Rutvij Bhoyar, Kiran Dhole, “Design and Development of Constraint Based XY Flexure Mechanism”, Proceedings of the International conference on Advanced Technology for Societal Applications, Springer.
- 6 2020 Shrishail Sollapur, Pratik Waghmare, “Investigation of Effect of Hybridization and Layering Patterns on Mechanical Properties of Banana and Kenaf Fibers Reinforced Epoxy Biocomposite”, ICMSD 2020 at Sai Ram Institute of Technology, Chennai, Material Today: Proceedings Elsevier Publication.
- 7 2021 Shrishail Sollapur, T R Shinde, “Fatigue analysis of alloy wheel in cornering fatigue test and its weight optimization”, international conference on Recent Advances in Modeling and Simulation Techniques in Engineering and Sciences [RAMSTES-2021] at Multiscale Simulation Research Center (MSRC), with Departments of Mechanical, Civil, and Chemical Engineering at Manipal University Jaipur (MUJ) India. Material Today: Proceedings Elsevier Publication

#### **WORKSHOP / COURSES CONDUCTED FOR STUDENTS & FACULTY**

- ✓ Ten days training course on “ANSYS 13” on 09.01.2012 to 18.02.2012 at Sinhgad Academy of Engineering, Kondhwa (Bk), Pune
- ✓ Ten days training course on “MATLAB Hands-on Training Programme” on 17.08.2011 to 27.08.2011 at Sinhgad Academy of Engineering, Kondhwa (Bk), Pune
- ✓ Conducted a webinar on “Finite Element Analysis & It’s Application in Process Industry”, at Sinhgad Academy of Engineering, Kondhwa (Bk), Pune
- ✓ Conducted a webinar on “Fracture Mechanics Approach in Design Engineering, & Research Opportunities in Gear Mechanics”, at Sinhgad Academy of Engineering, Kondhwa (Bk), Pune

**BOOKS PUBLISHED:**

1. **“MACHINE DESIGN AND INDUSTRIAL DRAFTING”** for Sem 4<sup>th</sup> for **GUJARAT TECHNOLOGICAL UNIVERSITY**, Gujarat.  
Nirali Publication Pune.  
**ISBN No-979-93-5164-888-8, [N3729]**
2. **“FINITE ELEMENT ANALYSIS”** for Sem 8<sup>th</sup> for **SAVITRIBAI PHULE PUNE UNIVERSITY**, Pune  
Nirali Publication Pune  
**ISBN No- 978-93-5164-844-0, [N3725]**
3. **“MECHANICAL SYSTEM DESIGN”** for Sem 8<sup>th</sup> **SAVITRIBAI PHULE PUNE UNIVERSITY**, Pune  
Nirali Publication Pune  
**ISBN No- 978-93-5164-882-6, [N3723]**
4. **“Theory of Machine-I”** for Sem 4<sup>th</sup> **SAVITRIBAI PHULE PUNE UNIVERSITY**, Pune  
Nirali Publication Pune  
**ISBN No-978-93-5164-418-7, [N3543]**

**ONLINE CERTIFICATION COURSES:**

1. National Program on Technology Enhanced Learning, Certification **“Basis Finite Element Analysis-I”**, Indian Institute of Technology Kanpur.
2. National Program on Technology Enhanced Learning, Certification **“Research Writing”**, India Institute of Technology Kharagpur.

**PROJECT GUIDED:**

Number of Students guided for UG: **50+**

Number of Students guided for PG: **08**

**SOFTWARE SKILL**

**Modelling** – AutoCAD, Pro Engineer, CATIA, Solid Edge

**Simulators** – MATLAB, ANSYS.

**Languages** –C, Auto Lisp Programming, CNC Programming

**Operating Systems** – Linux, Windows XP, Windows 7, Windows 8,10

## **SUBJECT / COURSES TAUGHT**

- ✓ **Machine Design-I**
- ✓ **Machine Design-II**
- ✓ **Mechatronics**
- ✓ **Finite Element Analysis**
- ✓ **Basic Mechanical Engineering**
- ✓ **Machine Drawing & Computer Graphics**
- ✓ **Engineering Graphics-II**
- ✓ **Geometric Modelling**

## **SCHOLARLY PURSUITS**

- ✓ Developing course materials / new Lab Experiments
- ✓ Developing e-learning materials for Engineering Graphics, Machine Design & Computer Graphics, Geometrical Modelling,
- ✓ Developing e-tutorials for MDCG, GM, MATLAB, AutoCAD
- ✓ Identifying important books in the subject area

## **PERSONAL INFORMATION**

Date of Birth : 14 Jan 1986  
Gender : Male  
Marital Status : Married  
Nationality : Indian  
Languages known : English, Hindi, Marathi, Kannada

## **Declaration**

I, hereby, declared that the information furnished here is correct to the best of my knowledge.

**Dr. Shrishail B Sollapur**