

## BIO-DATA (Long-Format)

1. **Name** : Sukhjinder Singh
2. **Designation** : Assistant Professor
3. **Department** : Mechanical Engineering
4. **Date of Birth** :27 September 1975
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- 6 **Areas of Specialisation** :Production

### 7. **Academic Qualifications :**

Sr. no.	Degree Held	Year	Board/Univ./ Inst.	% of marks	Div./ Rank	Subjects Taken
1	M.Tech	2007	PTU Jalandhar	65	Ist	Production Engineering
2	B.Tech	1999	PTU Jalandhar	61	Ist	Mechanical Engineering
3	12 <sup>th</sup>	1994	PSEB	49	IInd	Non-Medical
4	10 <sup>th</sup>	1991	CBSE	59	IInd	General subjects
5						
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### 8. **Membership of Professional Bodies/Organisations**

- i) **Life member of ISTE**.....
- ii) **NIL**.....

### 9. **Medals/Awards/Honours/Received**

- i) **NIL**.....
- ii) .....

### 10. **Scholarships:**

- i) **NIL**.....
- ii) .....

**11. Details of Experience:**

S. No	Name of the Inst./Employer	Position Held	Duration	Major Job Responsibilities and Nature of Experience
1.	SLIET, Longowal	RPO	2 years	Research
2.	SLIET, Longowal	Lecturer	5years	Teaching & Research
3.	BGIET, Sangrur	Sr. Lecturer	1 Years	Teaching , Research & Headship
4.	CIET, Rajpura	Asstt. Prof	1 Years	Teaching & Research
5.				

**12. Published Work (Please specify numbers only) :**

- a. Research Papers i) National = 8  
ii) International = 1
- b. Conference/Seminar Presentation
- c. Books  
i) Original :NIL  
ii) Edited : NIL  
(Please attach the list)

**11. R & D Projects**

- i) Worked in Two Projects as RPO(Research Project officer)

**12. Invited Talks/Articles**

- i) 3

**13. Ph.D. Students guided/under guidance (Details) :NIL****14. M.Phil./M.Tech Students guided :NIL**

S. No.	Name of the Student	Title of Thesis	Year of Completion
1.	AJAY GUPTA	Analysis for prevalence of carpal tunnel syndrome (CTS) among manual workers in a welding electrode manufacturing industry"	AUG 2017
2.	JATINDER SINGH	To Study the Effect of Welding Parameters of Friction Stir Welding on Weldment of Dissimilar Mg Alloys	MAY 2017
3.	JASKARANDEEP SINGH	Experimental study on Pulsed and Non Pulsed Current TIG Welding of Aluminium Alloy AA6063.	MAY 2017
4.	KAMALJEET SINGH	Experimental investigation to enhance the wear properties of material EN8D using Cryogenic treatment and Hardfacing process	JULY 2016
5.	MANINDERVIR SINGH	Investigating the influence of input process parameters of tungsten arc welding the stainless steel grade-304 plates on response variables using Taguchi method	AUG 2016
6.	BUTA SINGH	To study the performance of hardfaced high tensile steels with respect to wear applicable on the blades of plough	JUNE 2016
7.	KULWINDER SINGH	To study the performance of hardfaced high tensile steels with respect to wear applicable on the blades of zero till seed drill blade	JUNE 2016
8.	MANPREET DASS	Experimental investigation on optimization of the process parameters of Aluminium alloy AA6063 using Pulse TIG Welding using Taguchi method	JULY 2016
9.	SUKHDEEP SINGH	Analysing the MRR of EN6 Material using chemical etching	JULY 2016

		process with etchant Nitric acid	
10.	LAKHWANT SINGH	Experimental investigation of material removal rate, surface roughness and kerf width of heat treated Ti-6AL-4V on wire EDM	JULY 2015
11.	PRABHJOT SINGH	Experimental investigation of hardness & wear resistance of heat treated Ti-6Al- 4V alloy	JULY 2015
12.	OMESH JINDAL	To Study the Effect of Post Weld Heat Treatment and Welding Parameters on TIG Welded Aluminium Alloy 6063-T6 Joints	JULY 2015
13.	DEEPAK	Application of Quality Control Tools in a Bicycle Industry: A Case Study	JULY 2014
14.	SIKANDER SINGH	Fabrication of Aluminium composite by Friction stir Method	JUNE 2013
15.	NAVDEEP SINGH TUNG	Optimization of surface roughness and flank wear during turning of AISI D2 steel using mixed ceramic tools	JUNE 2013
16.	SATNAM SINGH SOMAL	A step towards reducing waste of submerged arc welding for economy and environment	AUG 2013

### 15. List of Papers/Courses taught at P.G. and U.G. Level

S. No.	Paper	Class
1.	<b>Mechatronics</b>	<b>PG &amp; UG</b>
2.	<b>Strength of Materials</b>	<b>UG</b>
3.	<b>Industrial Automation &amp; Robotics</b>	<b>PG &amp;UG</b>
4.	<b>Mechanical Measurements</b>	<b>UG</b>
5.	<b>MP-I &amp; MP-II</b>	<b>UG</b>
6.	<b>Automobile Engineering</b>	<b>UG</b>

### 16. Technical Proficiency

Organized a 40 hrs duration course on MATLAB in April 2003 for UG and PG students in collaboration with EMD cell at SLIET, Longowal.

Member of the team who prepared the project proposal under FIST scheme of DST for the mechanical engineering department. The department has got Rs. 20 Lacs for that project at SLIET.

Worked on Control of DC motors from PC using Data Acquisition cardPCL-208 and acquisition of data from LVDT and Optical Encoders to the PC

Software development using C++

Control algorithms using Interrupt Service Routine

Development of probe for force sensing using strain gauges, whetstone bridge and amplifiers

Development of interface Circuit for the single axis Robot PRO/E software installation and training

## PUBLICATIONS

S.No.	Author	Title of paper	Name of the journal/ Proceedings	Vol., year, page
1.	Sukhjinder Singh, Khushdeep Goyal, Rakesh Goyal,	Performance of Cr3C2- 25(Ni-20Cr) and Ni-20Cr Coatings on T91 Boiler Tube Steel in Simulated Boiler Environment at 900°C..	Chemical and Materials Technology	2016; 4(4): 57-64p. ISSN: 2332-1032
2.	Anand Vaz, Anil Singla, Sukhjinder Singh,	Development of a PC based controller for Active Control of Hand Prosthesis	National Conference on Design, Dynamics and Manufacturing	March 16- 17, 2007
3.	Anand Vaz, Anil Singla, Sukhjinder Singh ,T.P. Singh Ashish Singla	Development of Single axis manipulator for Robotic Manipulation	National Conference on Mechanical Engineering	Oct. 31- Nov. 1, 2003
4.	Anand Vaz, Anil Singla, Sukhjinder Singh,T.P. Singh	Velocity Feedback for Contact Interaction Control	National Conference on Mechanical Engineering	Oct. 31- Nov. 1, 2003
5.	Anand Vaz, Anil Singla, Sukhjinder Singh	Modeling And Simulation of Two Link Robotic Manipulator During Contact Interaction	National Conference on Machines and Mechanisms, NaCoMM 2001	Dec. 21-22, 2001, p. 163-170
6.	Anand Vaz, Anil Singla, Sukhjinder Singh	Modeling And Simulation Of Single Axis Robotic Manipulator During Constrained Motion	National Convention of Electronics and Telecommunication Engineers, Institution of Engineers, S.L.I.E.T Longowal, March 30-31, 2001	March 30- 31, 2001, p. 1-4
7.	Anand Vaz, Anil Singla, Sukhjinder Singh	Development of a Simple Test Rig for Implementation of Force Control Strategies in Robotic Manipulator Systems.	National Conference on Trends in Industrial Electronics, Transducers, Controls & Communication (TIET.COM-2000), TIET, Patiala.	Nov. 14-15, 2000 p. 199-202
8.	Anil Singla, Balwinder Singh, Sukhjinder Singh, Vikram Dhiman	Industry Institute Interaction: The Globalization Perspective" , Proceedings of	National Conference on Industry Institute Partnership for National and Institutional Development ( NCIIP), SLIET, Longowal, India,	6-7 Feb., 2003,p.156- 171