

# Dr. HARINDER SINGH

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## Objective

To establish myself in the field of education, to utilize my skills and experience to help students to achieve high improvements in academics. In the process - actualizing myself on the graph of growth and contributing effectively to the achievement of my organizational objectives.

## Research Area

Friction Stir welding, Friction Welding, Friction Stir Processing.

## Professional Qualification

- **Ph. D. (Mechanical Engineering)**, from IKG-Punjab Technical University, Jalandhar, (Pb) (August, 2021)  
**Thesis Topic:** Investigating Marine Corrosion Behavior and Mechanical Properties of Friction Stir Welded AA5083-H321.  
**External Examiner:** Prof. SK Nath (Department of Metallurgy) IIT- Roorkee  
**Supervisor:** Prof. Vikas Chawla (Dean. Academics, & Director, IKG - PTU, Main campus, Kapurthala)  
**Co-Supervisor:** Dr. Gurbinder Singh (Principal, Anand College of Engineering & Management, Kapurthala)
- **M. Tech. (Production Engineering)** from Giani Zail Singh College of Engineering & Technology, Bathinda (Pb), affiliated to PTU, Jalandhar securing 61% aggregate (2009).
- **B. Tech. (Mechanical Engineering)** from Lala Lajpat Rai Institute of Engineering & Technology, Moga (Pb.) affiliated to PTU, Jalandhar securing 68% aggregate (2003).

## Educational Qualification

- Intermediate through Punjab state Education Board from S.D. College, Barnala (Pb) securing 67% (1999)
- Matriculation through Punjab state Education Board from Arya Senior Secondary School, Rampura Phul, Bathinda (Pb) securing 78% (1997).

## **Professional Experience- 10 years 7 months**

**January 2012-April 2017**

**Maharishi Markandeshwar University, Kumarhatti, Distt. Solan, (HP)**

- Head of Department of Mechanical Engineering
- Installed Heat Transfer Lab, Refrigeration & Air Conditioning Lab.
- Controller of Examinations

**July 2011-December 2011 Assistant Professor**

**Shiva Institute of Engineering & Technology, Chandpur, Distt. Bilaspur (HP)**

- Head of Department of Mechanical Engineering
- Dy. Superintendent (Examinations)

**February 2010- June 2011 Assistant Professor**

**Arni University, Kathgarh, Kangra (HP)**

- Head of Department of Mechanical Engineering
- Head of Purchase Department
- Member of Board of Management
- Department Auditing In-charge
- Installed Workshop Machinery, Departmental Laboratories.
- Controller of Examinations

**August 2006-January 2010 Lecturer**

**Green Hills Engineering College, Kumarhatti, Solan (HP)**

- Department Auditing In-charge
- Handling AICTE & HPU Inspections and concerned Documentation
- Question Papers setter for HP Technical Board, Dharmshala (HP)
- Evaluator of Diploma and Degree Level Answer sheets of HP Technical Board, Dharmshala (HP) and HPU, Shimla

## **Paper Publications**

### **International Publications:**

1. Harinder Singh Grover, Vikas Chawla, Gurbhinder Singh “Comparing Mechanical and Corrosion Behaviour of TIG & FSW Weldments of AA5083-H321” Indian Journal of Science & Technology, Vol. 44, (UGC, WEB of Science, Thomson Reuters Indexed)

2. Harinder Singh Grover, Vikas Chawla, Gurbhinder Singh “Effect of friction stir welding process parameters on tensile strength of AA5083-H321 weldments” International Journal of Engineering, Science & Technology, February, 2018 (UGC approved)
3. Harinder Singh Grover, Raman Sharma, Himanshu Tripathi “Experimental Study of Friction stir welding process parameters on Tensile Strength of Al-Si alloy” ‘International Journal of Advanced Engineering Technology’. Volume 2/ Issue 3/ July-Sept.' 2011.

#### **International Conferences:**

1. Harinder Singh Grover, Dalgobind Mahto “Effect of Friction Stir Welding Process Parameters on Mechanical Properties of the Al-Si alloy: An Experimental Study” International Conference on Recent Trends in Mechanical Engineering, 2009, Kalasaligam University, Tamilnadu.

#### **National Conferences:**

1. Harinder Singh Grover “Effect of process parameters of CNC Turner on turned surface quality of copper: An Experimental Study” Conference on Recent Trends in Mechanical Engineering, BRCMCET, Bhiwani held on 12-13 March, 2010
2. Harinder Singh Grover “Need of Design of Experiments (DOE) in Manufacturing Industries” Conference on Recent Trends in Mechanical Engineering, BRCMCET, Bhiwani held on 12-13 March, 2010

#### **Short Term Courses Attended**

1. Two weeks STC on “Induction Training Program for Faculty of Engineering Colleges” by NTTTR, Chandigarh (Pb) in Green Hills Engineering College, Solan (HP)
2. Two Weeks STC on “Robotics & Mechatronics” NIT, Hamirpur (HP).
3. Two weeks STC on “CAD/CAM Technology& Applications” SLIET, Longowal (Pb)
4. One Week STC on “Enhancing Organizational Competitiveness in the Era of Globalization and Liberalization”, NIT, Jalandhar (Pb).
5. 32 hours Training (Four Days) on Auto CAD software Training by Autodesk® Authorized Training Center, Chandigarh.

## Industrial Training & Projects Undertaken

- **Six-month industrial training:** at Guru Hargobind Thermal Power Plant, Lehra Mohabbat, Bathinda (Punjab). The project was undertaken in various departments of the Plant to study their working and contribution to plant.
- **Motion Study of Rolling Process:** Under this project, the Time Study of rolling process at STELCO STRIPS Ltd., Rampura Phul, Bathinda, was done. The main objective to reduce the process time, by eliminating unnecessary activities, and/or by replacing old technology equipment with new ones.

## Projects Guided (B. Tech.)

1. Semi-Automation of TIG Welding Machine
2. Effect of process parameters of MIG welding on mechanical properties of the Mild Steel
3. Effect of chemical composition of electrodes in cladding process for mild steel.
4. Effect of Friction Stir Welding Process Parameters on mechanical properties of the Copper.
5. Fabrication of Abrasive jet machine.
6. Corrosion behavior of Aluminum alloy 5086-H116 TIG weldments.

## Computer Knowledge

- **Languages:** C, C++.
- **Software:** MS Office. AutoCAD, MiniTAB, Design Expert.
- **Platforms:** Windows Operating System, Linux.

## My Traits

- Communicative, Creative.
- Ability to achieve rapid comfort level in new environments.
- Self-motivated and Fast learner.
- Quality-conscious contributor.

## Personal Details

- D. O. B.: August 28th, 1982
- Marital Status: Married

**Declaration:** I hereby declare that the above particulars are true to the best of my knowledge & belief.



(Dr. Harinder Singh)