VAIBHAV RAGHAV

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Objective:

To work for achieving newer heights in engineering innovation and master the core ideas of the Mechanical & Thermal Engineering along with growing career prospects where my technical, practical and managerial caliber can find new horizons. To be highly proficient in modern non renewable energy utilization for delivering the needs of present day demands.

Working Experience:

- Assistant Professor, SFET, Shri Vishwakarma Skill University in September 2017-till date
- Assistant Professor, Mechanical Deptt, MRIU, Faridabad in July 2013- August 2017.
- Worked as GET in Elevate Technologies in CNC/Quality Dept. from Aug'10 to Aug'11.
- Subject Taught – Fundamentals of CNC, Fundamentals of Industrial Management, RAC, ICGT, Manufacturing Process, Measurement & Metrology, Hydraulics & Pneuamtics, Automobile Engineering, Workshop Technology etc.
- Practicals/ Labs Taken – Engineering Drawing, Machine Drawing, RAC, Measurement & Metrology, Hydraulics & Pneuamtics, Automobile Engineering, CNC Programming etc.

Some of the Final Year Project supervised (UG/PG):

1. Design and fabrication of single slope active solar still.
2. Optimization of effectiveness of passive single slope still by use of reflector.
3. Design and analysis of an Energy Efficient Automated Room.
4. Power generation by Heliostat power plant.
5. Dual axis Arduino based solar tracker.
6. Effective Solar dryer.
7. Hydraulic Power Pack
8. Smart Hybrid Two wheeler
9. Smoke absorber machine for increasing safety and efficiency at shop floor.
10. Solar still prototype.

Project Summary (Self)*:*

1. Project Name: Design and Fabrication of two finger robotic gripper by using Hoekens mechanism.
   Duration: January 2012 – June 2013
   Team Size: 3

2. Project Name: Design and Fabrication of special cutting tool for generating square hole by using reuleaux mechanism as Major Project
   Duration: July 2012 – June 2013
   Team Size: 1

3. Project Name: Application and feasibility of Step-NC with CAD/CAM & CNC.

Duration: July 2012 – December 2012
Team Size: 1

4. Project Name: Vehicle Differential Control System- Transfer of Power of the stuck wheel to free wheel to help in the advancement of Vehicle stuck on any slippery surface by using microprocessor and electromagnets
   Duration: July 2009 – August 2010
   Team Size: 5

Trainings (UG)*:*

- Krishna Maruti Ltd. Gurgaon (Haryana), June 2007- August 2007.
- International Cars & Motors Ltd, Ambh (Himachal Pradesh), June 2008- August 2008.

Educational Qualifications:

- 2013, Master of Technology (Manufacturing Technology & Automation), YMCAUST Faridabad with 8.13 CGPA.
- 2010, Bachelor of Technology (Mechanical Engineering), B.S.A.I.T.M, Faridabad with 69% aggregate marks.
- 2006, Intermediate, Central Board of Secondary Education with 79% marks.
- 2004, Matric, Central Board of Secondary Education with 86% marks.

Publications & Patent*:*

- Patent Published: Mechanized Retail store comprising 3D printing autonomous Home delivery Drone, Dec 2021.
- "Design and Optimisation of Robotic Gripper: A Review", National Conference on Trends and Advances in Mechanical Engineering, YMCA University of Science & Technology- 2012.
- "Design & Fabrication of a Special Tool to Produce Square Hole", International Conference on Materials Processing and Characterisation (ICMPC), Procedia Materials Science, Elsevier- 2014.
- "Finite Element Analysis of Rectangular defects in inspection of steel pipelines using magnetic flux leakage technique", International Conference on Materials Processing and Characterisation (ICMPC), Procedia Materials Science, Elsevier- 2016
- ″Collaborative supply chain: A Review", International Conference on Quality, Productivity, Relaibility, Optimization & Modelling (ICQPROM)-2017.
- "Modelling a Batch Production System through Tecnomatix: A Case Study", MR International Journal of Engineering & Technology, Vol. 7, No. 2, December 2015.
- "Structural, Wear and Thermal Behaviour of Copper Metal Matrix Composites: A Review, Future Learning aspects of Mechanical Engineering, 2020.

Area of work:

- Teaching and delivery of training of various Engineering (UG/PG) courses of Mechanical domain (such as RAC, Workshop Technology, CNC, Measurement & Metrology, Automobile Engineering, Fundamentals of Industrial Management, Hydraulics & Pneumatics)
- Worked as Placement coordinator of Mechanical department (2014-2017) at MRIU Faridabad.
- Organizing members of various workshops, conferences and events of the universities.
- Program Co-ordinator of UG programs (B.Voc Mechanical Manufacturing, B.Voc Solar Technology, D.Voc Mechanical Manufacturing) at SVSU, Gurugram [2017-till date]

Training /Workshops/ Skills:

- 15 days CNC Simulator Training (both Lathe+VMC), SVSU Palwal.
- Faculty Development programme on the shop floor of Hero Motocorp (Production/Quality), by SVSU, Palwal.
- TOA in Auto Service Techniciam Level-4, SVSU Palwal.

- TOT on Vocation Programme, organized by NITTTR, Bhopal.
- Short Term Course on Application of Renewable Energy Sources, organized by IIT, Delhi.
- Faculty Development Programme on Engineering Metrology, organized by NPTEL+IIT Madras.
- Faculty Development Programme on Inspection and Quality Control by NPTEL+IIT Roorkee.
- Workshop on Smart Manufacturing, IIT BHU.
- FDP on Design thinking in 3D printing, IIT BHU.
- Proficiency in handling Fanuc controller of CNC Lathe.
- Proficiency in CNC Machine Programming and other conventional machines.

Soft Skills:

Knowledge of Solid works and Auto Cad, CNC Programming, CAM and Microsoft Office.

Key Attributes:

Research oriented, technologically competent, Diligent and organized, Hardworking, independent performer, good team player, dedicated to work assigned.

Personal Details:

Father's Name	:	Sh. Ravinder Pal Singh
Mother's Name	:	Smt. Hemlata Raghav
Date of Birth	:	22-Dec-1988
Marital Status	:	Single
Nationality	:	Indian
Gender	:	Male
Language Known	:	Hindi, English and French(Read & Write)