SHWETA SINGH VERMA

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OBJECTIVES

I intend to build a career in a hi-tech corporate environment with committed and dedicated people. My aim would be to fulfill all the responsibilities to the best of my capability and assure a continuous value addition by my hard work and consistency.

EDUCATIONAL DETAILS

Year of passing	Degree / Education	Institute/ Board	Results	Main Subjects
2009	M.E. (Manufacturing Systems Engg.)	Birla Institute of Technology & science (BITS), Pilani, Rajasthan	CGPA 8.21	Mechanisms & robotics, Flexible Manufacturing system, Quality Control & Reliability, Mechatronics, Concurrent Engg. , Manufacturing Planning & control, World Class Manufacturing, Supply chain mgmt.
2004	BE (Mechanical Engineering)	Rajiv Gandhi Technical University, Bhopal (M.P.)	70.2%	Thermodynamics, Energy conversion systems, Machine Design, Strength Of Materials, Dynamatics of Machine, Refrigeration, Heat & Mass Transfer, Production & Manufacturing Processes.
2001	SSC 10+2	Madhya Pradesh State Board	70%	Maths, Physics, Chemistry

WORK EXPERIENCE

- Currently working as Assistant Professor in Mechanical Dept., **IT (Institute of Technology), GGV, Bilaspur.**
- Previously worked as Sr. Assistant Professor in **BIT (Bhilai Institute of Technology)**, Raipur.
- Worked as an Assistant professor in **Takshshila Institute of Engineering and Technology**, Jabalpur from July' 2009 to November'2009 and as a lecturer in **Takshshila Institute of Engineering and Technology**, Jabalpur from July' 2004 to June'2009.

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Subjects taught:
- Engineering Graphics
- Energy conversion systems
- Basic Mechanical Engineering
- Strength of material
- Theory of Machines
- Robotics

PROJECTS UNDERTAKEN

Post graduation Project:

Value Stream Mapping in Manufacturing

Objectives & Findings: To investigate the governing factors of the production and planning the capacity of plant with various products and process constants by the application of lean manufacturing.

A Software pamphlet is developed which help to reduce gap between planning and production of the products. The complete project includes the value stream mapping of the entire process. The aim of the project is to reduce set up time, number of set ups, waste identification and minimization, reduce lead-time.

I thoroughly studied the entire process of production as well as planning. Identify root causes of the Problem. After study on the entire process give a template of planning for production that will increase the production by 10% in a month and save 9-man power in day basis

- **Post Graduation Pre-final Year Project:**
Project 1: working model of grass cutter robot
Description: We developed a robotics grass cutter that can interact and move according to the given command. This grass cutter worked on circuit of a toy car. Robotics Gras cutter worked on five input command and work accordingly.

Project 2: working model of sweeping robot
Description: We developed a sweeping robot, which work and move using sensors. It will move and choose a random path and at the same time sweep the floor. It can change the path of move if any obstacles present with the help of sensor.

- **Graduation Final Year:**
Project: Colorant Dispenser – a working model (2004)
Description: It is working mechanical model of automatic and semiautomatic colorant machine available in the market. The objective is to reduce the overall cost of the machine.

INDUSTRIAL TRAINING

Study and overview of CNC machines, gear cutting and fabrication Department, Vehicle factory jabalpur (VFJ), Jabalpur (Jun'2002)
- Study and overview of a thermal power plant,NTPC ,Singaurli(june'2003)

SPECIALIZATION & SKILL SET

Analysis Software: MATLAB, Ansys-11
- **CAD Software:** AutoCAD
Area of research interest: Robotics , Mechatronics , Flexible Manufacturing Systems, MEMS.