

PERSONAL INFORMATION

Amita Singh



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STUDIES APPLIED FOR

Project work for Study Programme

WORK EXPERIENCE

05/05/2014–31/07/2014

Technical Trainee

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, New Delhi (India)

I was one of the ten candidates selected from India for internship in Germany

21/12/2011–15/03/2014

Senior Simulation Engineer

TATA Technologies for TATA Motors Ltd, Lucknow (India)

Simulated different layouts and material flows to optimise the manufacturing before building the assembly lines. Performed clash analysis, distance analysis and joint analysis

Simulated human with different process lines. Performed clash analysis and human posture analysis, RULA (Rapid Upper Limb Assessment) analysis to determine operator fatigue levels

Projects to understand the resource requirements and its validation before procurement. It includes validation of articulated arm and manipulator

Validation of different processes of Assembly Line for Trucks and clash reports

Validation of robots to be installed on welding shop. Validation of BIW spot plan and complete report generation

Designing and validation of jigs and fixtures for different processes of Chassis, Frame and Trim Lines
Creation of E-Learning modules for different processes of Assembly Line

Software Used: CATIA, DELMIA, AUTOCAD, QUEST and PLM

26/07/2010–20/12/2011

Process Engineer

TATA Technologies for TATA Motors Ltd, Jamshedpur (India)

Analysis of Assembly Line processes

Developed various documents required for vehicle building: Process Sheets, Process Flow Diagram, PFMEA and Control Plans.

Performed database maintenance and customised data import-export as per requirements

Software Used: DELMIA Process Engineer, VB Scripting and PLM

EDUCATION AND TRAINING

18/08/2014–Present

Masters in Commercial Vehicle Technology

Technical University Kaiserslautern, Kaiserslautern (Germany)

Grade: 1.66

Mechanical Engineering, Computer Science and Electrical Engineering

07/08/2006–24/06/2010

Bachelor of Technology (Mechanical Engineering)

Bundelkhand Institute of Engineering and Technology, Jhansi (India)

Major Project: Comparative Performance Analysis of matching of Low Alloy Steel (AISI 4340) under different conditions

Mini Project: Mechanical Design and its simulation in C++ for Helical springs used in Indian railway wagons

16/06/2009–15/07/2009

Internship

Hindustan Aeronautics Ltd (HAL), Lucknow (India)

Training in CAM processes (NC & CNC programming) at Mechanical Factory Department

02/06/2008–04/08/2008

Internship

Indian Institute of Management, Lucknow (India)

Studied/analysed liberated growth in Indian Automobile Industry, consequent to New Industrial Policy (LPG model) introduced in the 90s

PERSONAL SKILLS

Mother tongue(s)

Hindi

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Excellent communication and team skills
- Motivated and proactive
- Capable of working independently
- Reliable and methodical

Organisational / managerial skills

- Team lead of 5S in department
- Institute Sports Captain

Job-related skills

- Assembly Line processes of Commercial Vehicles
- Time-study of processes
- Line balancing
- Good knowledge of resources /machines

Computer skills

- C, C++, VBA and MATLAB
- Linux and Windows operating systems
- Microsoft Office (Word, Excel and PowerPoint) and Outlook