

## MANISHA TRIPATHY

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### SUMMARY

- Youngest member to be invited to participate in future model development at Suzuki Motor Corporation headquarters located at Takatsuka, Japan
- Highly skilled in 3D CAD modelling, well-versed in GD & T and modern manufacturing processes
- Multilingual: English, Hindi, Oriya, and elementary Japanese
- Strong communication, interpersonal, and presentation skills.

### EDUCATION

#### **Master of Science in Mechanical Engineering**

University of Texas at Arlington

**May 2016**

Arlington, Texas

#### **Bachelor of Technology in Mechanical Engineering**

College of Engineering & Technology

**June 2011**

Bhubaneswar, India

### PROFESSIONAL EXPERIENCE

#### **MARUTI SUZUKI INDIA LIMITED (MSIL), GURGAON, INDIA**

**JUNE 2011 – AUG 2014**

*(Largest automobile company of India)*

##### **Assistant Manager** (Assembly Engineering, Production Engineering)

- Experienced in green field & brownfield projects, in factory planning methods, capacity planning etc.
- Chief Model In-charge of a new car model to be launched in 2015: Digital mockups in the designing phase, process feasibility check in the trial stage, PFMEA, line balancing etc.
- Responsible for the equipment of Powertrain assembly to the main chassis, Door assembly processes, CNG tank assembly to body, Conveyor systems: Development of project plans, timelines, ROI calculation, budget allocation, commercial and technical negotiations with suppliers, design support, prototype trials, on-site installation and commissioning
- Experienced in the six sigma tools and lean manufacturing techniques like 5S, JIT, Kanban, KPI, etc.

#### **SUZUKI MOTOR CORPORATION, TAKATSUKA, JAPAN**

**OCT 2013 – NOV 2013**

**Assistant Manager** in Assembly Engineering, Production Engineering

- Planning & execution of assembly feasibility trial of a future model in SMC Headquarters, Japan
- Training about new model introduction into MSIL, India

#### **LARSEN & TOUBRO LIMITED, KANSBAHAL, INDIA**

**JUNE 2010 – JULY 2010**

Summer Intern

- Study of the various manufacturing stages of the stator carrier, component of windmill turbine
- Reduction in the cycle time in the manufacturing of the stator carrier

### SOFTWARE SKILLS

AutoCAD, COMSOL, MATLAB, ANSYS APDL, C, C++, Java, Microsoft Office, MS Project, CATIA, Unigraphics, PRO-E, ANSYS Fluent

### ACADEMIC RESEARCH PROJECT

“Mechanical Engineering Department of CET, Bhubaneswar under the guidance of Dr. L. N. Panda”

*Crowd farm power generation*-The project was about harvesting electricity for use in populated places from piezoelectric cells by application of force.

“MAE department of UTA, under the guidance of Dr. Dereje Agonafer”

*Design and Structural Analysis of Windbreakers for Modular Data Center*- This project is an ongoing project to meet the industry requirements of CommScope, Inc.

### PROFESSIONAL RESEARCH PROJECTS

*DOOR OFF MANIPULATORS*: Overhauled and upgraded the door assembly processes at MSIL

*ERGONOMICS IMPROVEMENT*: Developed a concept equipment to reduce the fatigue of the operator, i.e., improving the ergonomics of the assembly line operations.

### EXTRACURRICULAR ACTIVITIES

- Member of the “Society of Women Engineers, UTA chapter since January 2015
- Member of American Society of Mechanical Engineers since January 2015