

# Priyadarshan Zambre

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## Education

### **Texas A&M University, College Station, TX**

**Graduation - August 2014**

Master of Science in Industrial & Systems Engineering, **GPA 3.67/4**

### **College of Engineering Pune, Maharashtra, India**

**June 2011**

Bachelor of Technology in Production Engineering, **GPA 3.5/4**

## Professional Experience

### **Industrial Assessment Center, Texas A&M University**

**January 2014 - Present**

- Audited companies for energy consumption and analyzed electricity consumption trends.
- Recommended proposals for energy reduction, enhancing productivity and reducing wastes.

### **Cummins, Jamestown Engine Plant, New York**

**June 2013 - December 2013**

#### **Central Services Department**

- Collaborated with National Grid and studied policies and initiatives for funding of energy efficiency projects.
- Directed project to insulate wash tanks yielding savings of \$19,000 and managed to obtain energy incentive worth 50% project cost.
- Analysed compressed air system and spearheaded sub metering project to track utilization and air leaks.
- Calculated steam used in washers and implemented strategy to reduce steam usage by 10% or \$2500/yr.
- Contributed to light upgrade project from HID's to LED's yielding annual savings worth \$30,000.
- Proposed strategies to implement Variable Frequency Drives on DI Water pumping system.

### **Tata Motors, Pune, India**

**August 2011 - July 2012**

#### **Total Quality Management Department**

- Implemented lean manufacturing strategy by introducing FIFO system for rework parts in stamping shop.
- Investigated defect trend graphs of stampings and suggested solutions for defect reduction.
- Led small team in continuous improvement projects, achieving world class quality level – 1 in record time.

### **Tata Motors, Pune, India**

**January 2011 - May 2011**

#### **Stamping Department**

- Applied DMAIC improvement cycle yielding increase in productivity for panels from 60% to 88%.
- Overhauled manual circle grid analysis by designing and implementing new machine based etching.
- Applied dynamic programming for optimized utilization of forklifts on shop floor.

### **Tata Motors, Pune, India**

**July 2009 - December 2009**

#### **Productivity Services Department**

- Conducted method and time study and modelled the line for improving productivity and space optimization.
- Improved manufacturing process by reducing material and inventory resulting in \$ 11,000 annual savings.

## Academic Projects

### **Solar Desalination Business Plan**

**July 2010 - December 2010**

- Led a team of 4 people and headed the technical department of the business plan.
- Modelled financial plan based on earnings and expenses from operation and finance activities.
- Conducted market research of competitors and developed supply chain for distribution of salt and water.

### **Parabolic Heater**

**May 2009 - June 2009**

- Optimized design of parabola for different parameters of focus.
- Drafted design model of parabolic solar heater in AutoCAD.
- Surveyed market for materials and fabricated a steel parabolic trough collector of 18ft<sup>2</sup> area.

## Honors and Achievements

- Winner of 8 Gold and 2 Silver Medals in National Chess events.
- Winner of 3 national level business plan competitions in India for solar desalination project.