

Mayur Suresh Thawkar

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Objective: Actively seeking full time opportunities in Mechanical Engineering field.

Education:

Master's in Mechanical and Aerospace Engineering, (Yet to complete)

Syracuse University, USA

Courses: Fluid Dynamics, Methods of Analysis, Advance Mechanics of Materials, Computational Fluid Dynamics, Fuel Cell Science and Technology, Principles of Turbo-Machines, Building Environment and Modelling, Lean Six Sigma, Project Management, Building Material and Envelopes, Energy Conversion.

Bachelor's in Mechanical Engineering, May 2014

RTM Nagpur University, India

Certifications:

Catia V5

May 2015

Academic Projects:

- **National Grid (Lean Six Sigma)**
 - Ancillary items providing warehouse.
 - A Lean Six Sigma project with National Grid which involves decreasing the total lead time.
 - Prevent misplacement of parts by developing an inventory and finished goods recording system.
- **Line following Robot**
 - Did automation of gear manufacturing layout of an automobile company.
 - Figured out what is most optimum way of reducing the handling of products to minimize product cycle time and thus increase production.
 - Made model of the whole layout and showed the findings using a small line following robot.
- **Refrigeration Cycle Tutor**
 - Designed and fabricated whole refrigeration system.
 - It included two different types of condensers and various combination of expansion devices.
 - It can be used to learn how refrigeration works under various conditions.
 - Students can learn what changes in parameters that must be done to acquire desired refrigeration effect.
- **Design Evaluation**
 - CFD analysis of an upgraded Audi R8.
 - Worked on modelling, analysis and iterative testing of car at various conditions and test speeds.
- **Fuel Cell Optimization**
 - Design a solid oxide fuel cell of specific requirements.
 - Worked on selection of material and manufacturing of fuel cell.
 - Calculated total value for money. Realize best suitable battery pack.

Work Experience:

Laxmi Agro Steel Industries, Mechanical Engineering Intern

- Conducted process mapping on sheet metal operations for its improvements.
- Performed sales and marketing forecasts using MDMS for efficient inventory control.
- Updated daily production reports and conducted lean training on shop floor.

Hindustan Machine Tools Ltd., Mechanical Engineering Intern

- Industrial Familiarization Training.
- Worked on casting, machining, finishing processes.

Grip Tight Packaging (I) Pvt. Ltd., Mechanical Engineering Intern

- Worked on packaging of various products.

ICOM Institute

- Thermal Power Plant Familiarization, Mechanical Maintenance on Thermal Power Station, Instrumentation in Thermal Power Plant.

Software Skills: MATLAB, Minitab, Pointwise, Star CCM+, EES, Microsoft Suite, MS Project, CHAMPS-BES, Catia V5 SolidWorks.