

TARAK MAHETA

Mechanical Engineer

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(832) 419-2620

OBJECTIVE

Seeking full-time position in the field of Mechanical Engineering utilizing technical skills.

EDUCATION

University of Houston, Houston, Texas

May 2016

Master of Science in Mechanical Engineering

Certificate in Subsea Engineering (Pipeline Design & Flow Assurance)

GPA: 3.42/4.0

Coursework: Computational Fluid Dynamics (CFD), Heat transfer, Super Conducting Magnets, Engineering Economy
Micro Electromechanical System (MEMS), Materials for Energy Storage, Space Vehicle Design

Gujarat Technological University, India

June 2013

Bachelor of Engineering in Mechanical

GPA: 3.6/4.0

EXPERIENCE

Teaching Assistant, Engineering Graphics, University of Houston

August 2015 – Present

- Teaching Engineering Graphics Essentials with PTC Creo Parametric 3.0, GD&T and Process Plan
- Explaining Concurrent Design Engineering, Manufacturing and Assembly of Part, NC Programming

Vice President, Mechanical Engineering Graduate Association (MEGA) at UH

August 2014 - Present

- Managing MEGA events including Graduate Research Day and Resume Critique Seminar
- Inviting company professional to participate in Research Day and let them introduce their work

Maintenance Engineer, Gujarat Heavy Chemicals Limited (GHCL), India

July 2013 - April 2014

- Maintained Mechanical Equipment such as Pump, Belt and Coach Conveyor, Hydrator, Bucket Elevator, Plate Heat Exchanger, Atlas Copco Compressor, Ball & Roller Valve
- Filled out notifications about completed and pending jobs, SIV for required tools and Signed a Work Permit
- Planned for Equipment Overhauling during Annual Shut down and FMEA
- Led the Safety Awareness programme by explaining emphasis of Personal Protective Equipment (PPE)
- Erection & Installation of Reddler & Belt Conveyor, Plant Commissioning, Vibration Analysis, Root Cause Failure Analysis (RCFA)
- Worked as a AutoCAD Draughtsman, Created BOMs

Engineering Intern, United Tools Manufacturing, India

July 2012 – June 2013

- Processed orders from Automobile and Gearbox manufacturing companies
- Solved setbacks in Gear Manufacturing Techniques including Broaching, Hobbing, and Slotting

TECHNICAL SKILLS

- **Software :** ANSYS Fluent, Solidworks, Inventor, AutoCAD, PTC Creo, MS Office, Matlab, ABAQUS, Pipesim

ACADEMIC PROJECTS

- **Pipeline Design** considering span, thermal and on-bottom stability analysis using ABAQUS; compared analytical and numerical results
- **Flow Assurance:** Designed piping system and well routing by no commingling, identified limitations with regard to available injection pressure for gas lift, water and chemical injection and field operation plan was suggested
- **Pump Maintenance:** Troubleshooting of Centrifugal Pump
- **CFD:** Analysis of flow over Airfoil, and flow through mixing elbow using ANSYS Fluent
- **Future of Li-Air Battery:** Recent advancement in Li-Air battery that shows its potential to replace Li-ion battery

AWARDS, HONORS, PROFESSIONAL AFFILIATIONS

- Leadership Award for Safety Awareness Program January 2014
- Gujarat State Higher Education Scholarship July 2009 – June 2013