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Objective: Looking opportunity in field of Mechanical Engineering at firm where my skills and experience can make a positive contribution and can enhance my knowledge.

Educational Qualifications

University of Houston

Aug' 2014 –Present

Master of Science in Mechanical Engineering

GPA: 3.45

Gujarat Technological University, Ahmedabad, Gujarat, India

Aug' 2008-June 2012

Bachelors in Mechanical Engineering

Percentage: 71%

Technical Skills: Auto-CAD, Inventor, ANSYS Fluent, ANSYS Mechanical Solver, PIPESIM, Microsoft Office, Autodesk Revit, PRO –E, and SolidWorks

Work Experience:**Mechanical Engineering Intern at STAR PIPE PRODUCTS-USA**

Jun'2015- Dec'2015

- 1) FEA Design and Analysis of different Star Flex Plate using different materials on ANSYS Mechanical APDL.
- 2) FEA Design and Analysis of different Municipal Casting and Assembly of Joint Restraint over PVC Pipe.
- 3) Preparation of Test Requirement and Planning Records and Inspecting Engineering Testing of Products.
- 4) Inspection of products regarding UL and FM conditions needed for testing
- 5) Consolidation for Quality Inspection Reports for Houston Facility using Microsoft Office 2012.

HVAC Design Engineer at MAHESHWARI CONSULTANTS-INDIA

Jun' 2012-July 2014

- 1) Analyzed: Understanding Client requirement regarding HVAC/ Air-conditioning.
- 2) Heat Load Calculation & preparation of Design Basis Report (DBR) for HVAC system to be used.
- 4) Conceptualization of duct design and its detailed analysis.
- 5) Detail design of overall HVAC system & Quality checking of installed system.

Relevant Coursework: Heat Transfer Phase Change, Introduction to Computational Fluid Dynamics, Refrigeration and Air Conditioning, Microfabrication for flexible electronics, Nano Structured Materials, Flow Assurance, Materials for energy Storage, Semiconductor Materials and Photonic and Electronic Devices.

Academic projects:**Optimization of Steam to Air Heat Exchanger at DJK Industries.**

Aug'2011- Dec'2011

Influence of number of rows (i.e. number of passes), shape of tubes of heat exchanger (circular and elliptical) and material of fin and tubes are investigated numerically and model is analyzed in Autodesk Inventor. Thermal steady state condition is applied in Ansys Mechanical Solver to study various parameters of given heat exchanger for its optimization.

Analysis of flow over Air Foil with consideration of flaps in ANSYS Fluent.

Aug' 2014- Dec' 2014

Simulations of 2D flow past NACA 0012 airfoil at different angles of attack were performed. The stall of flow at certain angle of attack is observed with a sudden loss of lift and increase in drag coefficients with consideration of flaps and without flaps. Hysteresis phenomenon was analyzed for increasing and decreasing angles.

MEMS Fabrication of Platinum Thin Film RTD for High temperature Application

Aug' 2014- Dec' 2014

Basic concepts for manufacturing process of thin film RTD are studied and Alumina is suggested to be used as substrate material which also incorporates Tantalum as adhesive layer between Platinum and substrate which can provide RTD which can accurately measure temperature up to 850^oC

Flow Assurance for Subsea field development and Optimization using PIPESIM Jan' 2015- May'2015

Designing for Piping System and well routing by no-commingling. Identification of limitations pertaining to available injection pressure for gas-lift, water injection and chemical injection. Based on that, the field operation plan was suggested. Identified the operation challenges like wax and hydrate formation, suitable flow assurance strategy was suggested.