JUNIOR ENGINEER

Profile

Mechanical engineer interested in pursuing an engaging position in the corporate setting to implement skills and expertise earned through years of engineering background.Seeking a full-time employment opportunity. *Two years experience in mechanical field,which includes Product design, PipeLine design, pipeline operations and shipment handling.

Accomplishments

- Design and Simulation of compressor rotor Designed compressor rotor using CREO and Finite element analysis had done to test the design.
- Tools: CREO designing and Simulation.
- Design and analysis of Internal Combustion Engine Components Engine components such as piston, connecting rod, crank shaft using Pro-E 4.0.
- Assembled the designed engine components.
- Finite Element analysis has been done to test the designs.
- Tools: Pro-E, ANSYS Vibration analysis for vehicle suspension system Analyzed the amount of vibration in an automobile by considering the road surface as sinusoidal wave.
- Developed the equations of motion for a vehicle suspension system, to find the natural frequencies.
- The results were verified with the help of Matlab and Simulink model of the system.
- Tools: Matlab and Simulink Analyses and design of Sumorobot.
- Designed SUMO ROBOT body using Pro-E and 3 D printing has been done.
- Assembled a SUMO ROBOT to compete in the Sumobot.
- Programmed the robot using the ARDUNIO SOFTWARE by generating the code.
- The robot secured second place in the competition.
- Tools: Pro-E, ARDUNIO Analysis of hydraulic window opening mechanism.
- Analyzed four link hydraulic window opening mechanism and, the degrees of freedom, angular velocity and angular acceleration has been obtained.
- These values are simulated using ADAMS Tool and we have obtained very accurate values.

Professional Experience

06/2013 to 10/2014

Junior Engineer Vt Group

- Designed the layout of HDPE pipe line for six miles which includes with different flexible junctions.
- Prepared oil refineires layouts using Auto-CAD.
- Prepared layout for bulk liquid storage terimal installation.
- Planned operations to facilitate Shipment Details in support of customer requirements and delivery schedule.
- Planned pipeline pigging operations to clean the whole pipeline (Dry, Cargo ,Flush Out).
- Updated planning as required for all purchase orders/customer engineering changes or for all method improvement/correction type changes and prepared BOM'S.
- Updated the operations manual to the present working condition.
- Expertised in implementing cost saving measures to achieve substantial reduction in terms of man days, production cost, & energy consumption.

03/2013

Bickford Senior Living ï¼ North Island

- Undertook a project on "Trouble shooting and performance analysis of cooling towers".
- Analyzed the performance of an induced draft counter flow cooling tower.
- Elaborated the effect of fan performance and water requirements of the cooling towers.

Bickford Senior Living

- Industrial pollution prevention assessment project for OAK STATE Industries (Baking solutions through innovation).
- Worked as a member of the Industrial Assessment Centre funded by the United States department of energy (DOE).
- Identified the energy consuming patterns by visiting the plant ,best energy efficient techniques have studied, analyzed and suggested to the plant manager.
- Saved $8000/year through the study and analyses of lighting and exhaust gases section.
- Tools : Plant energy profiler, Air Master, Motor Master.
- Building energy management assessment has been done to RAYNOR GARAGES AND DOORS PVT LTD., DIXON, ILLINOIS Analyzed the waste energy streams in the RAYNOR PLANT building.
- Focused on the air intake of the ovens and high efficiency burners.
- Worked as a team lead and helped each and every member in their tasks.
- Tools : PEP, AIR master Analysis of reciprocating components in Internal combustion engines: Analyzed about reciprocating components of the engine such as pistons.
- Studied the pros and cons , effects on the efficiency of engine with respect to the design of the reciprocating components.
- Designing and Simulation of FAUCET Designed and simulated kitchen faucet using CREO.
- Tools: CREO MECHANICAL ENGINEERING INTERN.

Education and Training
May 2016
Masters : Mechanical Engineering Bradley University i¼ City , State Mechanical Engineering
May 2013
Bachelor's : Mechanical Engineering JNTU City India Mechanical Engineering JNTU
Auto-CAD, Pro-E,CREO, Solid Works, Matlab, Simulink, Energy Management Tools, ANSYS,Microsoft office, Ardunio.
Interests
Worked with INDUSTRIAL ASSESSMENT CENTRE ,USA *Coordinator for pollution prevention panel in KRISHNAPATNAM PORT PVT LTD., INDIA *Member of national cadet corps in INDIA
Skills
ANSYS, Auto-CAD, delivery, Designing, DOORS, energy efficient, Energy Management, innovation, layout, team lead, lighting, Matlab, MECHANICAL ENGINEERING, Microsoft office, oil, performance analysis, Pro-E, Simulation, Solid Works, Trouble shooting, type
Additional Information

- CO-CURRICULAR ACTIVITIES *Worked with INDUSTRIAL ASSESSMENT CENTRE ,USA *Coordinator for pollution prevention panel in KRISHNAPATNAM PORT PVT LTD., INDIA *Member of national cadet corps in INDIA