MOHAMED ASHIQ

**MECHANICAL DESIGN ENGINEER**

**(With UAE Driving License)**

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PROFILE SUMMARY

Detail oriented, highly dedicated mechanical design engineer with strong problem solving skills and a creative approach for generating new ideas. Able to provide cost effective solutions in designing a mechanical system without compromising its functionality and efficiency.

With more than 7 years of experience in the new product development (R&D) and industrial machine design, I expertise in the following areas - rotary equipment design “centrifugal pumps”, chain transmission system, industrial conveyors, integration of electro-mechanical components in an assembly, DFM, FEA static analysis, material handling techniques, sheet metal fabrication process, concept design & animation, industrial automation and detailed manufacturing drawings with GD&T as per ASME Y14.5M.

Moreover while my on-the-job experience has afforded me a well-rounded skill set including first-rate analytical and critical thinking skills I excel at:

* Manufacturing feasibility
* Casting methodology
* Sheet metal bending and welding factors
* Draft and under-cut analysis
* Metal forming processes
* Material selection based on strength and shrinkage properties
* Concept design and animation
* Product data management (PDM)
* Inventory check in ERP software (Baan ERP)
* Engineering change order (ECO) process

key accomplishments

* Received performance recognition award for the successful launch of new product development called, “Tango Pump”. It is marked as the product of the year 2018 by CSE magazine.
* Certified Solidworks Professional (CSWP) by demonstrating 3D modeling skill in an online exam conducted by Dassault Systemes.
* Successfully designed and launched our first in-house manufactured industrial pallet conveyors at Dubai MHME Expo 2019.
* Designed and developed robotic gripper for Kawasaki robot for a pallet handling application by reverse engineering.
* Delivered cost effective design for company’s standard parts such as conveyor profiles, drive holders, leg frames for a mass production.
* Self-designed Tango pump with a variable wall thickness ranges from 6 to 10mm, passed the hydraulic test and several performance evaluation tests on first stage itself.
* Presented a concept design of suction guide with filter unit which can be easily maintained without the necessity of dismantling the complete pipelines.
* Created several technical project animation videos to illustrate company’s project handling capacity.

work Experience (7+ years)

Acme Automation, Dubai (Feb 2018 – Present)

Mechanical Design Engineer

* 3D Designing and drafting of industrial conveyors such as roller conveyor, chain conveyor, lifting unit and special purpose machine using Solidworks/Autocad.
* Design of chain transmission system with drive unit for industrial conveyors.
* Preparing mechanical assemblies to check interference, functional behaviour of connecting mechanisms.
* Performing Static analysis to check load bearing capacity, motion flow analysis for connecting mechanisms.
* Detailed 2D drawing of assembly components with BOM, prepare pneumatic layout with control valves and development drawing for sheet metal fabrication.
* Involve in test run and installation of machines at shop floor/site.
* Co-ordinate with suppliers for providing product specifications and production follow up.
* Representing meeting with the suppliers and cross functional team members for technical illustrations.

Armstrong Fluid Technology, India (June 2015 – Sep 2017)

Mechanical Design Engineer

* Complete design support for the new product development called, “Tango Pump”.
* 3D Parametric modeling of Centrifugal pumps such as End suction pump, Horizontal split casing and Tango pump as per NEMA and IEC standards using Solidworks.
* Design calculation based on manufacturing process as per ASME standard.
* Performing FEA, tolerance stack-up analysis, thickness analysis, draft and undercut analysis with respect to casting and molding processes.
* Material selection based on application and shrinkage factor.
* Assembly of mating components and checking for interference and bolt fouling at worst case conditions.
* Create GA drawings and manufacturing drawing for casting and machining process as per ASME Y14.5M.
* Generate Dimension Inspection Report and balloon drawing for quality inspection.

EARLIER work Experience

* New Workshop Aluminium and steel works LLC, Abu Dhabi (Nov 2014 – Mar 2015)

Project Engineer

* ASE Structure Design Pvt Ltd, India (July 2012 – Sep 2014)

CAD Engineer

Education

* B.E Mechanical Engineering

2008 - 2012 / Anna University / Tamil Nadu, India.

CERTIFICATION

* Certified Solidworks Professional (CSWP) from Dassault Systemes.
* Siemens NX 12.0 modeling, Solidworks dynamic analysis – LinkedIn Certification.
* Professional course in Product design (Pro-E & Autocad) from CADD Centre, India.