


A.C KARTHIKEYAN

MECHANICAL ENGINEER

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ABOUT ME

Dedicated and results-oriented Mechanical Engineer with experience of 8 years in Pressure Vessel Design , Fabrication Design, Process Piping, P&ID Drawing and 3D Drawings. I can use my skills and expertise in the development of mechanical designs to further the company's advancement.

SKILLS

- Effective time management
- Communication skills
- SolidWorks
- AutoCAD
- NX Unigraphics

WORK EXPERIENCE

Apr 2015 – Present
Bangalore

Mechanical Design Engineer

Omega Scientific

- Knowledge in Pressure Vessel Design Calculations as per ASME BPE sec VIII Manually.
- Calculation in Stiffener and Flanges for Pressure Vessels.
- Basic knowledge in Surface Area Calculation for Heat Exchanger for CIP skid.
- Updating the Design Calculations in Excel.
- Preparing the GA and Fabrication Drawing in 3D by using ZW3D/Solidworks.
- Updating the GA Drawing as per As built condition.
- Coating of Piping and Instrumentation Drawings as per Customer process requirement.
- Generating Bill of Materials for the Process Systems like Mixing Vessels, Holding Vessels, Cip Skid, Fermentation System and Filtration skid.
- Generating Sequence of Operation for the Systems.
- Verifying the Process Sequence with Automation Team.
- The software used for the work output here are AutoCAD, SOLID WORKS and ZW3D. MS office will use for documentation and MS Excel for Sequence of Operation & costing.
- Taken up Project management tasks like Erection of Reactors, Utility piping, Reactor piping, CIP/SIP skids commissioning support in program operation and development.
- Executing Installation Qualification and Operation Qualification protocols at customer site

May 2014 – Apr 2015
Bangalore

Mechanical Design Engineer

Furnace Associate

- Design the 3D solid model based on Customer requirement
- Creating and Drafting Fabrication Drawing
- Estimating of Design Parameters
- Generating BOM(Bill of Material)
- Coordinating with Assembly team
- Updating the Design and Drawing based on feed back from Production team
- GD &T knowledge
- Project handeld Industrial Washing Machine (Furnace Associates) Software : Solid Works

EDUCATION

Aug 2010 – May 2014
Salem

Mechanical

Bachelors of Engineering

Anna University

B.E Degree in Mechanical Engineering with an aggregate of 6.96CGPA .

Jun 2009 – Apr 2010
Marthandam

High School

Degree

Christuraja

H.S.C with aggregate of 77% in the year 2009-2010

Jun 2007 – Mar 2008
Marthandam

Field Of Study

SSLC

Christuraja

SSLC with aggregate of 76% in the year 2007 - 2008

PROJECTS

May 2013 – Apr 2014
Salem

Alternative refrigerant for Freon -22 in Vapur compression system

Checking with Different Refrigerant and calculating it's efficiency

Narasus sarathy

Using Alternative Refrigerant for Freon 22 and Comparing it with others

CERTIFICATION

Aug 2012 – Sep 2013

NX-CAD

Cadd Center

Sep 2014 – Nov 2014

HYPERMESH

Cadd Center

Sep 2014 – Nov 2014

ANSYS
Cadd Centre

HOBBIES

Volunteering, Reading

LANGUAGES

- English
- Tamil
- Kannada

DECLARATION

I do hereby declare that all the details mentioned above are accurate to the best of my familiarity and confidence.

A.C KARTHIKEYAN

23 May 2023