**KRISHANPAL PATIDAR.**

Contact: +91-7879345439 E-mail: [krishanpalpatidar128@gmail.com](mailto:krishanpalpatidar128@gmail.com) Address: Gandhinagar

**I want to be an employee where I can contribute my skills and previous gained experience to the development of the organization and achieve growth in my professional career**.

**PROFILE SUMMARY**

* 3.9 years of experience in Design& Development of Mechanical Products like vacuum vessels, cryopump Components & Mechanical machines using Designing softwares.
* 2 Years of experience in carrying out Structure, Thermal and CFD analysis of Mechanical Components using simulation software.
* Strong Knowledge of creating Part Design, Assembly Design, Part Drawings, Assembly Drawings Welding Components Drawings & bill of material (BOM) for Mechanical Product.
* Strong Ability of Design and Development of Surface and Sheet Metal Components and optimization of components for cost reduction.

**TECHNICAL SKILLS/IT SKILLS**

* **Computer Aided Design Softwares-**Catia V5R20, Solidworks 2014, Autodesk inventor 2015, Creo 3.0,Autocad.
* **Analysis Softwares-**Ansys Workbench 15, Hypermesh V12.0 (Basic Level)
* Well versed with Solid Modeling, Assembly Modeling, Sheet Metal Module, Drafting, Generative Shape Design (Surfacing).

**ORGANIZATIONAL EXPERIENCE**

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| --- | --- | --- | --- | --- |
| **Employer** | **Start Date** | **End Date** | **Role** | **Responsibilities** |
| Institute for Plasma Research (IPR)  Gandhinagar | 1- Jun -2016 | 31-Dec-2017 | Project Engineer  (Mechanical Design) | 3D Part Design,Assembly Design, Surface Design, Sheet Metal Design, Detailed Drawings, Welding Drawings, Assembly Drawings, BOM, Thermal, Structure and CFD Analysis of Cryopump Components and vacuum vessels. |
| Krishna Engineering  Ahmedabad | 1-Feb-2015 | 30-May-2016 | Project Engineer  (Mechanical Design) | 3D Part Design, Assembly Design, Surface Design, Sheet Metal Design, Detailed Drawings, Welding Drawings,Assembly Drawings, BOM, Thermal, Structure and CFD Analysis of 3D Printer. |
| Space Applications Centre (SAC-ISRO) Ahmedabad | 7-Jan-2014 | 6-Jan-2015 | Graduate Apprentice  (Mechanical) | 3D Part Design,Assmbly Design, Surface Design, Sheet Metal Design, Detailed Drawings, Welding Drawings, Assembly Drawings, BOM, Thermal, Structure and CFD Analysis of portable Antenna moving System. |

**ACADEMIC QUALIFICATION**

* Graduation: BE in mechanical Engineering- 2012 with first class (77%) from Shri Dadaji Institute for Technology & Science Khandwa (MP).
* Class 12th - 2008 with 80.80% from Govt.Boys.H.S. School Bhikangaon (MP Board Bhopal).
* Class 10th - 2006 with 84.4% from Govt.Boys.H.S. School Bhikangaon (MP Board Bhopal).

**KEY PROJECTS UNDERTAKEN**

1. **Cryopump-1 (At Institute for Plasma Research (IPR) Bhat, Gandhinagar)**

**Role: Project Engineer**

* Responsible for 3D mechanical design of various components of a cryopump.
* Assigned with responsibilities of creating the dimensional drawings, Part Drawings, Assembly drawings and complete bill of material (BOM).
* Assigned to perform Structure analysis of Cryopanel mounting stack.
* Assigned to perform Steady- State-thermal analysis of cryopanel.
* Assigned to Creating welding drawings for Cryopump Components.
* Assigned to calculate design calculation and develop component specification based on the project demand specification.
* Assigned to check the manufacturing feasibility and assembly constraints while designing the new product.
* Assigned to maintain the project records and documentations.

1. **Project-FDM Based 3D Printer (At Krishna Engineering Odhav Ahmedabad)**

**Role: Project Engineer**

* Responsible for 3D mechanical design of various components fused deposition Modelling (FDM) type 3D Printer.
* Assigned with responsibilities of creating the dimensional drawings, Part Drawings, Assembly drawings and complete Bill of material (BOM).
* Assigned to perform Thermal analysis of Nozzle.
* Assigned to perform Kinematic simulation of belt and pulley mechanism for XY direction motion.
* Assigned to perform Kinematic simulation of lead screw for heated bed in Z direction motion.
* Assigned to calculate design calculation and develop component specification based on the project demand specification.
* Assigned to check the manufacturing feasibility and assembly constraints while designing the new product.
* Assigned to maintain the project records and documentations.

1. **Project: PAMS (Space Applications Centre SAC, ISRO Ahmedabad)**

**Role: Team Member**

* Responsible for 3D mechanical design of various components of Portable Antenna Moving System (PAMS).
* Assigned with responsibilities of creating the dimensional drawings, Part Drawings, Assembly drawings and complete bill of material (BOM).
* Assigned to perform CFD analysis of Antenna Reflector.
* Assigned to calculate design calculation and develop component specification based on the project demand specification.
* Assigned to check the manufacturing feasibility and assembly constraints while designing the new product.
* Assigned to maintain the project records and documentations.
* Assigned to participate during reviews and evaluating costing after proto build.
* Assigned to Perform Structure analysis of main frame structure of PAMS.
* Weight optimization of various components of PAMS.

**PERSONAL DETAILS**

* Name : Krishanpal Patidar
* Date of Birth : 12 August, 1990
* Marital Status : Unmarried
* Permanent Address: 571, BTI Road Ambica Nagar Khargone(MP)

**DECLARATION**

I hereby declare that the above-mentioned information is true to the best of my Knowledge.

Date: / / 2018

Place: Gandhinagar Krishanpal Patidar