KISHOR K MANDLIK

Email: mandlik_kishor@yahoo.in

Age28 l Male l Single

Mob.: 9867177944

Experience:-3 Years

KEY SKILLS

Hyermesh/Hyperview 17.2, Optistruct 17.2, Nastran, Ansys Workbench, IDEAS(for postprocessing) and nCode Design Life.

OVERVIEW

Working as a CAE Engineer in off highway vehicle domain with L&T Technology Services since Jun-2015, providing technical design solutions on various mechanical products.

Involved in various analysis projects, Provide information about critical locations to validate the designs in actual testing. Also provide design modification with consideration of manufacturing feasibilities as well.

Proficient in creating complete model i.e from meshing to deck generation in Hypermesh and reviewing result using Hyperview. Also possess good knowledge of contact convergence issue in Optistruct.

Good at understanding results feasibility, also understand model behavior by studying model in high deformation scale and stress flow pattern.

Involved in various project activity like Cost & Effort estimation and project planning.

Interaction with Onsite engineers and customer for understanding of project functional requirements.

PROJ ECT MANAGEMENT

- Responsible for input study, project feasibility study, preparation of project proposals and project plan.
- Co-ordination with onsite engineer for daily work input and design iterations, quality and delivery.
- Responsible for quality checks, quality assurance for customer deliverables and review meetings and issue resolutions.

PROJECT DETAILS

Worked on the following projects in **L&T Technology Services** (**Jun-15 to till now**)

Project -1: Non-linear Analysis on Telehandler BOOM

Description:

- Objective is to Benchmark FE Analysis is to be done on a machine with results already available.
- This is to validate FE methodology followed by us for upcoming products.

Tools: - Hypermesh, Optistruct, Hyperview and MS-PowerPoint

Key Roles and Contribution:

- Define the contact between lifting cylinder bracket with boom.
- Parts not considered in analysis are modeled by 1D elements.

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- Provided suggestions for the improvement in the design based upon the results obtained.

Project -2: Stitic-linear Analysis on Booster Finrow Jig FEA

Description:

- Objective is to validate the stationery frame by rotating frame load.

Tools: - Hypermesh, Optistruct, Hyperview and MS-PowerPoint

Key Roles and Contribution:

- Define the contact between lifting cylinder bracket with boom.
- Parts not considered in analysis are modeled by 1D elements.
- Provided suggestions for the improvement in the design based upon the results obtained.

Project -3: Non-linear Analysis on Fork Positioner For Tmm

Description:

- Objective is to validate structural strength of New Design, by comparing it with Baseline model.

Tools: - Hypermesh, Optistruct, Hyperview and MS-PowerPoint

Key Roles:

- Create GAP and Contacts.
- Apply half symmetric constraint to reduce run time.
- Provide design changes, perform iterations to validate design.
- Create session file in Hyperview.

Project -4: Stitic-linear Analysis of New Tipper Body

Description:

- To validate the new tipper assembly, by comparing it with existing tipper assembly results.

Tools: - Ansys Design Modeler, Ansys Mechanical and MS-PowerPoint

Key Roles:

- Pins are modeled using line body with proper cross-section.
- Use variable thickness for baseplate.
- Define bonded and frictionless contacts at required locations.
- Hydrostatic pressure is applied on side wall to consider effect of pay load.
- Provide design changes, perform iterations to validate design.

Project -5: Test Fea Result Validation For Crane

Description:

- To correlate FEA results at gauge location with test results.

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Tools: - Hypermesh, NASTRAN, NX-IDEAS & MS-Excel

Key Roles:

- Criteria is to maintain exact 20mm element size at weld and gauge location.
- Run static linear analysis using Nastran.
- Postprocessing results using NX-Ideas.
- Prepare ES-Excel document for results correlation.
- Divide large crane assembly into subpart and study each part to match correlation.

Project -6: Analysis for Refuse truck

Description:

- Objective is to validate the Refuse truck structure using FEA.

Tools: - Hypermesh, Optistruct, Hyperview & MS-Excel

Key Roles:

- Create all possible loadcases for refuse truck.
- Generate Excel for packing pressure calculation of refuse at each loadcase, based on cylinder capacity.
- Validate calculated packing pressure.
- Define contacts at required locations and performed non-linear static analysis of the model using Optistruct.
- Provided suggestions for the improvement in the design based upon the results obtained.

EDUCATION DETAILS

M.Tech in **Design Engineering** from Virmata Jijabai Techanical Institute (VJTI) Mumbai.

M.Tech Thesis

"Analysis and Design Oval shape flange for chiller using FEA to comply ASME code". This project was done at Thermax Limited, Pune. This research project aims to design and analysis of oval flange, to establish an appropriate bolt tension specific to a particular flanged joint on a shell and tube heat Exchanger in order to successfully seal the flange joint.

PERSONAL INFORMATION

Father's Name: Kawaduji Devaji Mandlik
Date of Birth: 02-Jul-1989
Languages Known: English, Hindi & Marathi

DECLARATION

I hereby declare that the above information is true to the best of my knowledge and belief.

Place: VADODARA
Date: **Kishor K. Mandlik**