Sravana Sumanth Koneru

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EMPLOYMENT

QuEST Global - *Mechanical Engineer* **-** Olean, New York — Aug. 2021 - Current

- Working as a part of the Siemens Energy plant transition team, where we collaborate with multi-disciplinary engineering teams and are responsible for updating physical drawings & converting them to 3D models using NX, using GD&T and DFM techniques wherever required and updating necessary Technical Manuals for the machinery.
- Responsible for creating spec sheets and Manufacturing instructions for all the manufacturing operations performed in the plant.
- Responsible for Knowledge Transfer of Technology and auditing documents i.e., Technical Manuals, Physical Drawings.

SVS Engineering - *Mechanical Design Engineer* **-** Hyderabad, India — July 2017 - Dec. 2018

- Responsible for Design, modelling and optimization of components for Vacuum Tray Dryers (VTD) and Atmospheric Tray Dryers (ATD) using DFMA. Used Solidworks to create 3D models and 2D drawings.
- Performed part modelling, complex assemblies, Stack-Up analysis and Welding operations wherever it is required. Also used GD&T and developed BOM, in accordance with project deadlines and internal procedures and standards.
- Communicated with customers, and updated changes as required for the completion of the project and involved in design review meetings. Increased the output by an average of 20% and reduced customer complaints by almost 50%.

EDUCATION

Stony Brook University — Aug. 2019 - Aug. 2021
Master of Science Mechanical Engineering 2021
Relevant Coursework: Product design optimization, Introduction to Robotics, CAD of shapes and motions, Advanced Dynamics, Finite Element Analysis. GPA: 3.6

Gokaraju Rangaraju Institute of Engineering and Technology — Aug. 2013 - May 2017
Bachelor of Technology Mechanical Engineering 2017
Relevant Coursework - Computer Programming and Data Structures, Design of Machine Members, Finite Element Methods, Theory of Machines, Advanced Thermodynamics, Mechanics of Solids. GPA: 3.7

SKILLS

TECHNICAL SKILLS: Design for Manufacturability (DFM), Design for Assembly (DFA), Finite Element Analysis (FEA), GD&T, ANSI Y-14.5, CNC - G&M Codes, CAD, Tolerances, BOM, Tolerances, NPD
SOFTWARE PACKAGES: Solidworks, PTC Creo, AutoCAD, Catia V5, Abaqus, Ansys, Windchill, Mathematica, Microsoft Office, Google Suite, NX, Team Center
LANGUAGES: MATLAB, C, C++, Python

PROJECTS

Impedance control at uncertainities in environment (Thesis) — Aug. 2020 - Current
Implemented and simulated the Impedance control scheme with a moving desired frame in open serial chain robot manipulator using ScLERP.

ScLERP Motion Planner — Jan. 2020 - May 2020
Implemented a ScLERP based motion planner for serial chain manipulator and simulated in a Baxter Robot Arm in MATLAB.

Doo Sabin Subdivision Scheme — Jan. 2020 - May 2020
Created a GUI based application using C++ to implement a novel interpolating subdivision scheme based on Doo-Sabin Subdivision scheme on 3D meshes.

Finite Element Analysis of Fracture Specimen — Jan. 2020 - May 2020
Finite Element Analysis is carried out on a standard ASTM compact fracture specimen using ABAQUS to study its fracture mechanics.

Structural Analysis of Various components using MATLAB — Aug. 2020 - Dec. 2020
Created a MATLAB code, which can perform structural analysis on any given truss of 2D element when provided with the coordinates of the specimen.

Powered Exoskeleton Arm — Jan. 2017 - May 2017
A exoskeleton arm with pneumatic systems to assist people with limited limb functionality or to help lift more weights is modelled ,fabricated and tested at various conditions.

Maintenance of Boilers (Rotating Machines and Pressure Parts) — Dec. 2015 - Dec. 2015
Worked as a part of a project team at National Thermal Power Corporation (NTPC), which made a profound study on functioning, performance, and maintenance of boilers (pressure parts and Rotating machines). Working and efficiency of the boiler at various conditional parameters and the maintenance of various components of the power plant (Boiler, Turbine, and offsets) are studied.

AWARDS

Certified Professional in AutoCAD, Autodesk — Apr. 2015