

MECHANICAL ANALYSIS MANAGER - Jacobs Space Operations Group
 Supervised, Managed, and Reviewed all Mechanical Analysis Performed by the Mechanical Analysis Group for the Testing & Operations Support Contract. Assisted Various Analyses and Projects with Statics, Dynamics, Vibrations, Blast Conditions, Thermodynamics, Fluid Dynamics, Structural Components, and Instrumentation.

2020
2021

Kennedy Space Center

SENIOR MECHANICAL ANALYST - Kress Carrier Corporation
 Senior Structural Analyst for all of Kress Carrier primarily in NX Nastran and Hypermesh. Responsible for all Finite Element Analysis, assists with Design Recommendations, Gauge Mapping, and Validation.

2019
2020

Brimfield, Illinois

MECHANICAL ANALYST - Tata Technologies for Caterpillar Incorporated
 Performed Structural Analysis for the Track Type Tractors and Large Structures Divisions. Provided Modeling and Simulation Support in Creo, Creo Simulate, NX Nastran, Hypermesh, Ansys and Abaqus.

2017
2019

East Peoria, Illinois

MECHANICAL ENGINEER - Advanced Technologies for Caterpillar Incorporated
 Performed Structural, Thermal, Dynamic and Optimization Analysis for Product Development and Global Technologies. Researched new patents, materials, technologies, and manufacturing methods.

2015
2016

Mossville, Illinois

MECHANICAL ENGINEER - BMS Manufacturing
 Responsible for initial design concept, modeling final design, providing structural analysis and manufacturing prints for part racks. Primary Structural Analyst, Automation Specialist and Machine Programmer.

2014
2015

Milan, Illinois

MECHANICAL ENGINEER - Dell Innovation Services
 Engineering Consultant and Optimization Specialist for analysis, design, manufacturing, simulation and high-end problem solving in aerospace, aeronautics, agriculture, and automotive engineering.

2013
2011

Bettendorf, Iowa

BILL OF SKILLS

YRS	SKILL
15	MECHANICAL ANALYSIS
14	MECHANICAL DESIGN
14	CREO / PRO-E
12	DETAILING
10	CREO SIMULATE
10	HYPERMESH
9	NX NASTRAN
7	MATLAB / SIMULINK
7	PROGRAMING
6	ANSYS
6	DYNAMIC ANALYSIS
6	COMP. FLUID DYNAMICS
5	ABAQUS
4	AUTOCAD
3	ANSYS FLUENT

Masters of Science
 Mechanical Engineering
 University of Iowa

2010

Bachelors of Science
 Mechanical Engineering
 University of Iowa

2008

Detail of "Education"

Note of Executive Summary:

A very well rounded, self-motivated individual who is detail oriented and highly dedicated to improving logistics and processes for smooth and efficient operations. A specialist with a very high level of skill in mechanical design, structural analysis, manufacturing methodology and design optimization. Someone who's work ethic, documentation skills, technology skills, and communication skills have enabled her to shine out of the crowd.

APRIL JENNIFER CHOI
 MECHANICAL ENGINEER

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