

APRIL JENNIFER LU

MECHANICAL ENGINEER

CONTACT

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Orlando, Florida



EXECUTIVE SUMMARY

A well-rounded, self-motivated individual who is detail-oriented and highly dedicated to improving logistics for efficient operation. A specialist in mechanical design, structural analysis, manufacturing processes, and design optimization.

AWARDS

Bachelors of Science

Mechanical
Engineering

University of Iowa

Iowa City, IA | 2008

Masters of Science

Mechanical
Engineering

University of Iowa

Iowa City, IA | 2010

SKILLS

- CAD, FEA, CFD
- NX Nastran
- PTC Creo
- Creo Simulate
- Hypermesh
- AstroLAB
- Ansys
- Abaqus
- Matlab
- Simulink
- AutoCAD
- Ansys Fluent
- Programming
- Detailing
- Fortran
- Machine Learning

EXPERIENCE

ANALYSIS MANAGER

2020-Present

Jacobs | Kennedy Space Center, FL

Supervised, Managed, and Reviewed all Mechanical Analysis Performed by the Mechanical Analysis Group in areas such as Statics, Dynamics, Vibrations, Blast Conditions, Thermodynamics, Fluid Dynamics, & Structural Components.

MECHANICAL ENGINEER

2017-2019

Tata Tech. for Cat. Inc. | East Peoria, IL

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.

MECHANICAL ENGINEER

2015-2016

Adv. Tech. for Cat. Inc. | Mossville, IL

Performed Structural, Thermal, Dynamic, and Optimization Analysis for Product Development and Global Technologies. Researched new patents, materials, technologies, and manufacturing methods.

MECHANICAL ENGINEER

2011-2013

Dell Innovation Services | Davenport, IA

Engineering Consultant and Optimization Specialist for mechanical analysis, mechanical design, manufacturing, simulation, and high-end problem-solving in aerospace, aeronautics, agriculture, and automotive engineering.