

APRIL JENNIFER CHOI

MECHANICAL ENGINEERING



April.Jenn.Choi
@gmail.com



1.319.400.1024



Orlando, Florida



[www.linkedin.com/
in/april-jenn-choi](http://www.linkedin.com/in/april-jenn-choi)

EDUCATION

MASTER OF SCIENCE

Mechanical Engineering

University of Iowa
2008-2010

BACHELOR OF SCIENCE

Mechanical Engineering

University of Iowa
2004-2008

HIGHLIGHTS

10 Years Industry
Experience

Strong, Respected
Community Leader

Certified Maintenance &
Reliability Professional
(CMRP) License

Expert Computer Skills

PROFILE

A strong leader in various technical fields who possesses superb technical writing, communication, presentation, and customer interface skills. Well rounded, self-motivated individual who is organized, flexible, and capable of effectively prioritizing several multidisciplinary projects with a strong work ethic with intense drive.

WORK EXPERIENCE

MECHANICAL ANALYSIS MANAGER

NASA Space Operations Group | Kennedy Space Center | 2020-2021

- Responsible for supervising, planning, leading, organizing, controlling, and allocating resources for the Mechanical Engineering Analysis.

- Aided in engineering design, development, analysis, troubleshooting, testing, and implementation of Ground Support Equipment.

- Established personnel requirements, assignments, and priorities across a multi-talented team of engineers.

SENIOR MECHANICAL ANALYST

Kress Carrier Corporation | Brimfield, Illinois | 2019-2020

- Responsible for performing, understanding, and giving feedback on technical data, complex hand calculations, design drawings, analysis models, and reports.

- Consistently provided support to engineering, design, manufacturing, assembly, testing, inspection, field operations, and product improvement.

MECHANICAL ANALYST

Caterpillar Inc. | East Peoria, Illinois | 2017-2019

- Performed Finite Element Analysis, Finite Element Modeling, and Stress Analysis in NX Nastran, Creo, Ansys, and Hyperworks. Specializing in FEA, Dynamics, Modal, Shock and Vibration Testing.

- Provided engineering analysis results and expert technical feedback to coworkers, stakeholders, and leadership.

KNOWLEDGE

Finite Element Analysis

ASME Standards

Fundamentals of
Engineering Licence

Geometric
Dimensioning and
Tolerancing

Computational Fluid
Dynamics

Design Optimization

SOFTWARE

NX Nastran

Hypermesh

PTC Creo / Pro-E

Ansys

LS-Dyna

Abaqus

AutoCAD

Microsoft Office

INTERESTS

Performance Arts
Engineering

Circus & Aerial Arts

Whip Cracking

World Record Breaking

Fire Performance

Music Performance

WORK EXPERIENCE CONTINUED

MECHANICAL ENGINEER

Caterpillar Inc. / Mossville, Illinois / 2015-2016

-Performed Finite Element Analysis, Design Optimization, Weld Distortion Analysis, Dynamic Analysis, Vibration Analysis for the Product Development and Global Technologies Division

-Conducted research and development for new patents, materials, technologies, designs, analysis, testing optimization, and manufacturing methods.

-Maintenance head for Caterpillar Innovation Accelerator, Caterpillar Internal Makerspace and Technical Center Facility Layouts

MECHANICAL ENGINEER

BMS Manufacturing / Milan, Illinois / 2014-2015

-Responsible for the creation of transport racks including designing initial concept, modeling final design, providing structural analysis and manufacturing prints

-Primary Structural Analyst, Software Automation Specialist and Machine Code Programmer

MECHANICAL ENGINEER

Hawk Technologies / Rock Island, Illinois / 2013-2014

-Provided Structural Analysis and Design Optimization for Tooling

-Project Lead for tooling design, modeling, structural analysis and detailing

-Technical Specialist for detailing standards, project reports, process optimization, and time management

MECHANICAL ENGINEER

Dell Innovation Services / Bettendorf, Iowa / 2011-2013

-Engineering Consultant, Structural Analyst, Design Engineer, and Optimization Specialist for mechanical analysis, mechanical design, manufacturing process, numerical simulation and high-end problem solving in aerospace, aeronautics, agriculture, and automotive engineering