

Aditya Kautikwar

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MECHANICAL DESIGN ENGINEER | CAE ENGINEER | CSSGB

EDUCATION

UNIVERSITY OF DAYTON

M.S. Mechanical Engineering (GPA: 3.3)

Dayton, OH

2017 - 2019

- **Relevant Coursework:** Finite element analysis, Project management, Materials energy applications, Continuum mechanics, Propulsion, Renewable energy, Engineering statistics

SRM UNIVERSITY

B.S. Aerospace engineering

Chennai, India

2012 - 2016

- **Relevant coursework:** Manufacturing technology, Thermodynamics, CFD, Heat transfer

WORK EXPERIENCE

Caresoft Global Inc

BOM Release Engineer

Columbus, IN

Dec 2020 – Present

- Created bills of materials by reverse engineering of the automotive systems and sub systems
- Identified the material types, measuring the packaging dimensions of various components using different measuring tools and gauges
- Coordinated with associates for the system and subsystem teardown process of the vehicles

Thinkpath Engineering Services LLC (Cummins Inc)

CAD Designer/Drafter

Columbus, IN

Sep 2020 – Nov 2020

- Support design team for modification of existing Cummins diesel engine components using CREO
- 2D Drafting according to the industry manufacturing standards
- Product data management using Windchill PLM
- Drawing rough layout and sketches according to design proposals, standard specifications, and established client/company practices
- Support Cummins marketing graphics team on ISX/M11 and other diesel engine components
- Interaction with client representatives on proposals/projects

Steelcase Inc (ITC Infotech USA)

Mechanical design Engineer

Grand Rapids, MI

Feb 2020 – May 2020

- Designed 3D parametric models using CREO and PRO E (Pro-Programs) for the new product lineup and complex parametric assembly design
- Created EBOM's and MBOM's by reverse engineering the existing models to support 3D parametric modelling
- Created and reviewed 2D drawings based on the company's engineering and manufacturing standards ASME Y14.5/ASTM
- Created and managed Bills of Materials (BOM) from part level to top level on Windchill
- Managed ECN's and ECR release processes on Windchill
- Coordinated with 4 offshore Design engineers on multiple project assignments

Siemens Digital Industries software

Student Intern - Digital twin (CAD/FEA)

Livonia, MI

Jun 2018 – Dec 2018

- Computer aided modelling of industrial crane components using NX CAD
- Assisted in creating Assemblies and sub-assemblies of the components
- Modified the existing CAD models in NX
- Performed complex structural linear and Non linear analysis using NX CAE/NASTRAN
- Post processing of the results, creating plots, data comparison and choosing the best options.

Cognizant technology solutions

Hyderabad, India

Analyst

Jul 2016 – Jul 2017

- Supported design team for redesign of existing products
- Assisted teams to revise and review engineering 2D drawings on for accuracy and to ensure that they comply with ASME y14.5 standards
- Participated in DFMEA, DFSS activities to reduce defects

CERTIFICATIONS

- Six Sigma Green Belt Certification – CSSGB (Sep 2020)
<https://www.sixsigma-institute.org/badges/27134847884997>
- Geometric Dimensioning and Tolerancing (GD&T) – Advanced concepts (Nov 2019)
[\(https://www.udemy.com/certificate/UC-GIC8C56K/\)](https://www.udemy.com/certificate/UC-GIC8C56K/)

PROJECTS

- Fabrication and testing of flame holders used in Ram jets
Design of combustion chamber and analysis of three different flame holders
Tools: ANSYS FLUENT, CATIA V5
- Noise isolation in aircraft jet engine using biomimicry
Using biomimicry concept to isolate the noise of the jet engine, Tools: SOLIDWORKS, ANSYS FLUENT
- Aircraft Design project – Design calculations for 40-seater aircraft – Calculations related to engine selection

RESEARCH EXPERIENCE

Multi-Section Wing design

- Research was done on the idea of variable camber wing to minimize turbulence and successfully published a journal.

TECHNICAL SKILLS

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| • CREO/PRO-E 5.0 | • LS-Dyna | • MATLAB |
| • NX 12.0 | • SOLIDWORKS | • ANSYS MECHANICAL |
| • SOLIDWORKS | • WINDCHILL | • NASTRAN |
| • INVENTOR | • TEAMCENTER | • ABAQUS |
| • CATIA V5 | • CSSGB | • MS OFFICE |