

ARUN KAUSHAL *P.Eng., M.Eng.*

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Professional Engineer (P.Eng.) with 10+ Years hands on design and validation experience

SUMMARY OF PROFILE

- Licensed Professional engineer (P.Eng.) in the province of Ontario.
- More than 10 years of experience in mechanical design and assembly of components.
- Over 7 years of experience in products launches and project management and Industrial manufacturing.
- Expertise in procurements of parts and components from vendors
- Expertise in thermal analysis and fluid dynamics of the design by CFD and FEA
- Fully capable of working on custom designed equipment and products.
- Solid grasp over Design FMEA, GD&T, ECO/ECR, drafting and ISO standards.
- Strong problem-solving and Multitasking skills with proven record to meet tight deadlines.

PROFESSIONAL EXPERIENCE

Product Engineer

Nov 2020 – Jan 2022

Glen Dimplex Americas, Cambridge, ON

- Designed the CAD model and made drawings for Electric fireplace and various electro-mechanical components like relays, switches etc. using solid works.
- Lead Engineering design reviews at various stages of the process and conducted regular update meetings with the team and the suppliers/offshore manufacturers at China.
- Worked closely on the Business case approval, create test plans and funding of the Fireplace project.
- Lead projects of change in the electronics (PCBA/MCU) in the two most famous fireplaces of Dimplex by conducting testing on the new electronics and verified it by **UL Certification/Testing**
- Working closely with the test team on multiple projects and completed performance tests, power interruption test, function verification test, manual validation test etc.
- Reviewed CAD design packages, bills of materials (BOM) & technical documents on regular basis.
- Hands on experience and Instructor led Training in Software-as-a-service (SaaS) Product development software, OnShape.

Senior Mechanical Engineer

May 2019 – Nov 2020

Erwin Hymer Group, Cambridge ON

- Designed, tested and performed engineering analysis (using both FEA-Ansys and physical pull test) on actuators operated rear bed (both PS&DS) for Promaster chassis as per customers' requirements using Pro/E Creo Parametric
- Lead a project of changing and getting tested, the first-row seat and swivel pedestal in Promaster chassis; for verification owing to the change in design by OEM.
- Created prototypes designs of various components for verification before actual production run with the help of 3D-Printing backed by solid design calculations (both hand and software)
- Supported Project managers and program managers throughout the project and during new product development to make sure the projects are on time.
- Successfully completed a project involved electric actuators installed fully automatic sofa bed in the RV.
- Worked with external manufacturers and vendors to build the parts which couldn't be manufactured inhouse.

Mechanical Engineer

Dec 2015-Feb 2019

Erwin Hymer Group, Cambridge ON

- Structurally designed and implemented second row seat and seat belt brackets in Mercedes Sprinter chassis as per RVIA codes and CSA guidelines and performed FEA which passed the required pull test before putting van into production.
- Reduced 150 lbs. of weight of the trailer by optimizing the process of material selection, and structural design changes.
- Lead numerous critical projects and conducted FEA & CFD simulations using ANSYS & made technical reports.
- Launched a new vehicle: Hymer Aktiv (Promaster chassis) successfully into production within project deadline after complying with CSA guidelines.
- Supported production floor and generated over 65 Engineering change orders (ECO) in one year
- Generated BOM (Bill of materials) for more than 1500 parts, structuring the components and helping the purchasing team to source parts and components as required.

Product Design Engineer

2015

Tapplock Inc., Toronto

- Designed and developed Tapplock-smart fingerprint padlock using Solid Works
- Assisted with electro-mechanical system design.
- Participated in design reviews and works closely with cross-functional engineering teams to transfer mechanical design requirements into prototype components / systems.
- Communicated and coordinated with external suppliers and vendors and sourced materials and components related to the project.

SKILLS

Software Skills	Soft Skills
<ul style="list-style-type: none">• Pro/E Creo Parametric	<ul style="list-style-type: none">• MS Office (Word, Excel)
<ul style="list-style-type: none">• Solid Works/Solid Edge	<ul style="list-style-type: none">• Self-Starter or Proactive
<ul style="list-style-type: none">• ANSYS-CFD, FEA	<ul style="list-style-type: none">• Communication
<ul style="list-style-type: none">• OnShape	<ul style="list-style-type: none">• Analytical and problem solving

EDUCATION

Master of Engineering (M.Eng.)	2015
University of Toronto, Mechanical Engineering	
Master of Technology (M. Tech)	2010
National Institute of India, Mechanical Engineering	
Bachelor of Technology (B. Tech)	2007
PT University, India, Mechanical Engineering	