

AKASH VYAS

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Seeking challenging assignments in an esteemed organization, to offer a diverse range of product development skill set used in Design, prototyping, analysis and production phases, and to enhance my professional skills and personal strengths in conjunction with the organization's goals and objectives.

EDUCATION

Kamal Model Sr. Sec. School, New Delhi

12th | May 2015 | 78.8%

SRM Institute of Science and Technology, Delhi-NCR

B.Tech in Automobile Engineering | May 2019 | 7.31 CGPA

WORK EXPERIENCE

Mechanical Design Engineer | Flexmotiv Technologies Pvt. Ltd

Dated: June 2019 – March 2020

Worked on the Design of an adjustable walking frame for stair climbing for elderly people as per ISO 11199-1:1999 using a Gear Mechanism and sheet Flexure for Angular motion of the Rear Legs of the frame.

- Conducted engineering design and analysis of systems and components using CAD/FEA tools.
- Assured proper documentation of technical data generated for the assigned projects and tasks consistent with engineering policies and procedures.
- Accountable for structural analysis activities, to ensure the adequate performance, quality and reliability of the product, as well as compliance with product specifications and standard requirements.

INTERNSHIP AND PROJECT

Mechanical Design Intern | Flexmotiv Technologies Pvt. Ltd

Dated: January 2019 - May 2019

Worked on low-cost passive Prosthetic knee joint for replicating human gait(Early Stance Flexion-extension, Stance control & Late stance flexion) in multiple mobility scenario for amputated people using 6 link mechanism and Sheet Flexures.

- Design of Joint Mechanism based upon the torque profile/knee moment of an abled person.
- Design of compliance mechanism for variable stiffness.
- Static (Linear & non-Linear) analysis of the mechanism, Verify compliance to strength & functional Requirements of designs through Engineering analysis & calculation.

Mechanical Design Intern | Flexmotiv Technologies Pvt. Ltd

Dated: May 2018 - October 2018

Design and Mechanical Analysis of Flexure and Kinetic Shape-based Crutches for enhanced mobility and reduced energy consumption as per IS 5143 -1998 and ISO 11334-1:2007.

- Worked in a team of 7 towards product development of a novel biomimetic leg-shaped Axillary crutch for disabled patients. This startup won the BIRAC BIG award, a competitive Biotechnology grant for establishing Proof of Concept.
- Developed new concepts and prototypes as per preliminary input and further developed the concepts based on Team feedback.
- Coordinated with vendors for part fabrication and DFM Inputs.

National Kart Racing Championship, Bhopal

Dated: Sep 2017 - Oct 2017

- Worked as Powertrain engineer, implemented an assembly of manual Piaggio ape gearbox with CVT also a member of Design group for College Go-kart team.
- Possess strong commitment to team environment dynamics with the ability to contribute expertise and follow leadership Directives at appropriate times.

Training in ANSYS CAE | NSIC Technical Services Centre, Delhi

Dated: December 2017 - January 2018

- Working knowledge of Ansys Workbench & APDL.

ENGINEERING & SOFTWARE SKILLS

- SolidWorks, ANSYS, Ultimaker Cura, MS Office, Prototype Development, Engineering Documentation, Conceptual Designing.

MOOC

- NPTEL - Basics of Finite Element Method 1 &2 (IIT Kanpur).
- Edx - A Hands-on Introduction to Engineering Simulations (Cornell University).

PERSONAL ATTRIBUTES

- Intellectual Curiosity, Innate Problem Solver, Resilience and Persistence.

PERSONAL DETAILS

- Father's Name: Mr Laxman Prasad Vyas
- DOB: 17th October 1997
- Address: L-2B/5 Mohan Garden, Uttam Nagar, New Delhi-110059