

BHASKAR PALIWAL

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HIGHLIGHTS OF QUALIFICATIONS

- Over 2 years of experience as a design engineer, designing custom mechanical equipment, preparing their 3D models and performing stress and thermal analysis using Catia V5 and Solid Works.
- Experience working in Tata Motors' high volume automotive manufacturing facility with multi-disciplinary experience in process or equipment engineering.
- Worked with drafting, CAD, FEA and other related software to build an All-terrain Vehicle for the S.A.E Baja with proficiency in using Solid Works, Solid Edge, Pro-E, CATIA V5, AutoCAD, SAP and SPC applications.
- Possess certification for ANSYS from the Cornell University, New York and Advanced certified solid works certification from the Dassault Systemes.
- Over 1 year of experience building automotive jigs and fixtures with strong knowledge and experience with root cause analysis, DFMEA and Kaizen projects to improve the quality and productivity.
- Strong interpersonal, organizational, written and oral communication skills with proficiency in Microsoft office.
- Possess all required certifications, including: Solid Works, Auto-CAD, Catia V5 R20, 3D Max, Project manager, Ansys, Corrosion engineering and WHMIS in addition to a Master's degree in Mechanical Engineering.
- Excel working in a team environment where collaborative initiatives such as team building drives the team apart.
- Engineer-In-Training designation in progress.
- Available to work immediately and willing to relocate with a valid Class 5 driver's license.

EDUCATIONAL QUALIFICATIONS

Master of Science in Mechanical Engineering
University of Saskatchewan

August 2015 – August 2017
Saskatoon, SK

Bachelor of Engineering in Mechanical Engineering

T.H.D.C. Institute of Hydropower Engineering & Technology, Uttarakhand Technical University

June, 2014
Uttarakhand, India

WORK EXPERIENCE

Organization : **Morris Industries Ltd.**

09/01/2017 – 01/02/2018

Profile : R&D Design Engineer

Yorkton, Canada

- Designed various agricultural automotive machines as well as jigs and fixtures for the high-volume manufacturing using the Solid Works design package.
- Performed prototype testings in the field.
- Created shop drawings including bill of materials and weld tracking tables.
- Performed DFMEA, root cause analysis and Kaizen to improve the productivity and quality.
- Worked proactively with the manufacturing to ensure an efficient and cost-effective transition from design to manufacturing.
- Acted as a Liaison between the company and the part suppliers.

Organization : **Tata Motors**

07/2014 – 08/2015

Profile : Graduate Mechanical Engineer

Pune, India

- Designed various jigs and fixture models for car assemblies.
- Participated in various DFMEA and root cause analysis studies at the plant.
- Performed CFD and FEA analyses on the Car outer body and chassis using the software Ansys.
- Created shop drawings including bill of materials and weld tracking tables.
- Designed various parts using the software Catia V5.
- Co-ordinated with the suppliers, skilled trade workers to carry out the production of various parts for the plant.

Organization : **University of Saskatchewan**

08/2015 – August

Profile : Research Assistant (Advance materials & renewable energy group)

Saskatoon, Canada

- Designed and manufactured various custom mechanical equipment for the research group using Solid Works and performed stress and thermal analysis using ANSYS.
- Worked on hydrogen powered car systems as the thesis of research.
- Worked on designing and developing belt conveyors for Mosaic and Cargill.
- Trained Master's, PhD and post doctorate students on various equipment and assisted with prototype building.

SOFTWARE SKILLS

Software Languages : C, C++, MATLAB, Python

Designing software : Auto-cad, Catia V5R20, Solid Works, Revit

Simulation software : Ansys, Aspen hysys

PROJECTS

- Designing and manufacturing of All Terrain Vehicle (A.T.V.) for the S.A.E. Baja 2014.
- Analysis and design of vehicle passive suspension system using MATLAB & Simulink.
- Optimizing the production procedure of ball-milled magnesium-nickel alloys for hydrogen storage.

VOLUNTEERING EXPERIENCE

Cultural Secretary, India Students' Association (University of Saskatchewan)

- Promoted indigenous Indian Culture through various functions and cultural events.
- Promoted intercultural bonding and exchange with other organisations around Canada.
- Conducted various fund-raising events and acted as a liaison between the executives and the donor.
- Assisted prospective students of the University of Saskatchewan.

Volunteer, International Student and study abroad centre (University of Saskatchewan)

- Assisted in organizing the Global Village event to showcase various cultures from around the world.
- Assisted in organizing various information sessions for incoming international students.

Volunteer, My adventure club (Uttarakhand technical university)

- Assisted in organizing various government of India sponsored adventurous events for students such as trekking, river rafting, bungee jumping etc.
- Organized trips for students to various heritage sites in Uttarakhand, India.

Volunteer, Summer volunteer program 2014 (Government of NCT of Delhi)

- Participated in various activities involving teaching and playing with street kids in Delhi.
- Participated in conducting information sessions for kids in an orphanage.

AWARDS & ACHIEVEMENTS

- Completed certificate course in “A hands-on introduction to Engineering Simulations” using Ansys from the Cornell University, New York in 2016
- Awarded certificate of appreciation from National Association of Corrosion Engineers (N.A.C.E international) in 2015
- Cleared the S.A.E. INDIA BAJA 2014 A.T.V. designing and manufacturing virtual round in 2014
- Member of the Society of automotive engineers, India
- Completed certificate course in Auto Cad-2D in 2013
- Completed certificate course in Catia V5-R20 in 2013
- Awarded with a performance rating of 84% during internship at Air India Ltd. in 2013

REFERENCES

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