Vaibhav Jain

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CAREER OBJECTIVE

To work in such an environment where I can develop myself professionally while making a significant contribution to the success of the organization.

INDUSTRIAL EXPERIENCE

TATA Advanced Systems Ltd, Bangalore(KA)

Assistant Manager - Mechanical Design (APRIL 2022 - Currently Working)

Senior Mechanical Design Engineer (NOV 2020 - MARCH 2022)

Design and developing various Defense weapon systems and machinery such as Akash Army Launcher and Active protection systems for the Indian Army.

Worked on Structural Design & Analysis, Engineering Materials, Geometric Dimensioning & Tolerancing, ASME Y14.5, Statistical Tolerance Analysis, Design for six sigma, DFMEA for overall product optimization.

Development of Automation algorithms using python for design of various machine components.

PBO Plus Consulting Services (P) Ltd, Nashik(MH)

Mechanical Design Engineer (MAY 2019 - APRIL 2020)

Responsible for Project handling, Material selection, design to manufacturing, and dynamic simulation of special purpose machines. Worked on machine diagnosis through vibration analysis and control using MATLAB and Simulink.

Bharat Oman Refineries Ltd, Bina(MP)

Intern (JUNE 2017 - JULY 2017)

Learned and worked on basics & Overhauling of Pumps, Compressors.

ACADEMIC CREDENTIALS

Qualification	Board/University	Year	Grades
M.Tech [Machine Design]	Indian Institute of Technology, **IIT ISM Dhanbad**	May 2020	9.0 CGPA
B.E [Mechanical Engineering]	Madhav Institute of Technology and Science, **RGPV University**	May 2018	7.84 CGPA
HSC - 12th	CBSE	June 2013	75.6 %
SSC - 10th	CBSE	June 2011	8.8 CGPA

TECHNICAL SKILLS

Softwares
- Ansys Simulations | MATLAB | MathCAD
- Solidworks | Solid Edge | Catia V5 | Siemens NX

Programming Languages
- Python, Javascript, Tcl/Tk
- C, C++, STL, Object-Oriented Programming in C++
- HTML & CSS

PROJECTS

Automation of Design and Selection process of mechanical components with definite input parameters.
—Self Project   (Oct 2021 - Feb 2022)

- Design process automation of various mechanical components such as shaft, beam, keys, and gears along with selection of bearings, roller chains, and sprockets from the manufacturer's catalog using python flask framework.

Kinematic and Dynamic Analysis of a single-stage Cycloidal Speed Reducer.
—Assoc. Prof. S.K Ghoshal, IIT (ISM) Dhanbad.   (Dec 2019 - May 2020)

- Design and Analysis of stress state of the Cycloidal Speed reducers components in the assembly under motion in Ansys workbench 18.1. Which shows the sections in the assembly are more prone to failure.

Machine Diagnostic through vibration Analysis using Fast Fourier Transform.
—Assoc. Prof. S.K Ghoshal, IIT (ISM) Dhanbad.   (June 2019 - Nov 2019)

- Diagnosis of Rotatory machines through vibration analysis using Fast Fourier Transform with MATLAB application to predict the machine health by determining the frequency of the defected component from the frequency domain graph and thereby eliminating unplanned downtime of the machines.

A Case Study of I.C Engine cooling fins subjected to thermal stresses.
—Asst. Prof. Akash Sood, MITS Gwalior.   (Jan 2018 - April 2018)

- Analysis of the Automobile cooling fins subjected to crack under thermal stresses by Ansys engineering simulation 14.2.

Atmospheric Water Generator *from moisture-laden air.*
—Asst. Prof. Sharad Aggrawal, MITS Gwalior.   (Jul 2017 - Dec 2017)

- Water extraction from humid air using Adiabatic Saturation with the vision to meet the drinking water requirements of households in coastal regions of India.

Design and Modeling of a small-scale prototype of a Manoeuvrable Remote Consoled Aircraft.
—Prof. C.S Malvi, MITS Gwalior.   (Jan 2017 - April 2017)

- Design and testing of a propeller-driven airplane designed to perform maneuvering of pitching, yawing, and rolling in free air.

Designed & Manufactured go-kart for national-level competitions.
—Prof. M.K Gaur, MITS Gwalior.   (Jun 2015 - Oct 2015)

- Responsible for brake assembly design, chassis impact analysis, powertrain calculations, and DFMEA.

ACHIEVEMENTS

- Awarded Star of the month for June 2022 at Tata Advanced Systems Ltd for excellent work performance in Active Protection System.
- All India Rank 1554 in Graduate Aptitude Test in Engineering under Mechanical Engineering Stream (Gate score: 757).
- Awarded with certification in Dy'signo a state-level technical design competition.
- Secured 22nd rank in Go-kart championship at Lovely Professional University by LPU SAE INDIA COLLEGIATE CLUB (18 Mar 2016).
- Acquired 33rd rank in National Kart Racing Championship 2016 – Season 2 (17th to 19th Oct 16).

INTERPERSONAL SKILLS

- Team management, Time management
- Communication skills

PERSONAL DOSSIER

Father's name   Mr. Vijay Kumar Jain
Permanent address   179, Jawahar ward, Sarvodaya chowk, Bina - 470113
Nationality   Indian
Interest & Hobbies   Playing badminton, Chess, Reading finance books.

DECLARATION

I declare that the above information is true to the best of my knowledge.

Vaibhav Jain