

RAHUL SHARMA

• Mechanical Engineering Intern •

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ABOUT ME

I am a Mechanical Pre-final year student with good knowledge in field of Thermal Engineering, Core Manufacturing, Machines, CAD Designing, Static & Dynamic Analysis and 3D Designing. Seeking a summer Internship opportunity as a mechanical engineering-research intern.

EDUCATION

2019 - Present • M.B.M. Engineering College, Jodhpur
B.E. Mechanical Engineering (Avg 8.707 CGPA)

2017 - 2018 • N.M. International School, Jaipur
12th Standard (PCM) - 87.00%

EXPERIENCE

- Feb - Present 2022** **Research Internship at Indian Institute of Technology, Jodhpur**
Project - Design of Heat sink in Thermoelectric generator.
- Working on different Heat sink design, considering optimization of Material, pattern of flow, fluid selection and ergonomics.
 - This project is to be done in collaboration of IIT, Jodhpur and DRDO, Jodhpur.
- June - July 2021** **Research Internship at DRDO-Research Centre Imarat (Hyderabad)**
Project - Satellite thermal control design.
- Worked on Honeycomb sandwich Al satellite plate design on CAD platform (Solidworks)
 - Worked on thermal and dynamic analysis of satellite plates on Ansys Workbench.
- Aug 2020 - Apr 2021** **Team Member (Under 5 Virtual Presenters) & Steering Department Lead**
Team Daruga (SAEINDIA BAJA 2021)
- Participated in the Preliminary Round and Main round of M-Baja 2021 as Team Daruga, MBM Engineering College (**AIR 59 Preliminary**)
 - Worked on Designing, Calculation and Mechanism of Steering system of All Terrain Vehicle. Team lead of the Cost department.
- Jan - Feb 2021** **Virtual industrial training**
Virtual Intern
- Two weeks **Virtual** Industrial Training on "**Advanced Two Wheeler Technology**" under TVS Motor Company & Skyy Rider Institutions.
 - Completed basic 2 Wheeler components study and their functioning.
- Jan 2021** **AutoCAD Training**
Internshala
- Completed **virtual** AutoCAD training from Internshala.
- Jul - Dec 2020** **Indian Institute of Technology, Bombay**
E-Cell
- 6 Month Campus-Ambassador Internship. Techfest
 - 6 Month Campus-Ambassador Internship.
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PROJECTS

Satellite thermal control design and analysis using Ansys.

In this project, I worked on satellite thermal control. I designed a honeycomb sandwich structure of different Al material and proceed with their thermal and dynamic analysis.

Tools used—SolidWorks & Ansys Workbench

Modeling and Analysis of Skywalker to calculate drag, Outlet Velocity and Outlet Pressure.

In this project, I completed modeling of an aero launcher named Skywalker and rendered product designer images with Keyshot.

In another phase I completed flow analysis of this model with Ansys Fluent by meshing and then calculated Pressure range, Velocity Range and Drag between Inlet and Outlet on a Finite cuboidal enclosure.

Tools used—SolidWorks & Ansys Workbench

SKILLS

3D CAD Modelling (CSWA)
Automotive Engineering
Management & Marketing
Entrepreneurship
Graphic Design

SOFTWARES

Solidworks (3D CAD Designing and Simulation)
Ansys Workbench and Design Modeler
AutoCAD (Basic 2D Designing)
Product Designing
Adobe Illustrator
Adobe XD
Adobe After Effects & Premier Pro

VOLUNTEER

Science Week 2022 - Vigyan sarvartra pujyate (Under the Agies of Vigyan Prasar, DST & DRDO)

Head Coordinator (Technical Events & Management)

MECHMANIA (MechMania is a 7 Day Long Online - Automobile/Technical Fest Organised by MBM SAE INDIA COLLEGIATE CLUB) Student Marketing and Management Coordinator

Developers Student Club

Photography and Designing Volunteer