Abhinav C
Mechanical Engineer

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🔗 https://theabhiverse.com/

Profile

Award winning Design Engineer with 2 years of experience in CAD modeling, CAE Analysis and product development. Collaborative team player with proven track record of delivering multiple, concurrent projects in fast-paced environments.

Professional Experience

CAE Project Engineer, *Reno DesignLabs*
Jan 2023 – present | Hyderabad, India

- Thermo - Mechanical Analysis Using Ansys for Steam Turbine Casing for Turtle Turbines Pvt Ltd
- Gearbox Product Configurator - Design Automation
- Reverse Engineering of Valve and Flange
- Rust Prevention Solution for Barb Wire - Tata Innoverse
- 3D Rendering and Animation

Project Engineer, *HITAM IICP*
Jul 2021 – Sep 2022 | Hyderabad, India
During my role as a Project Engineer, I was responsible for completion of the following projects.

- Design Optimisation using Hyperworks for Altair Optimisation Contest - 2022, Placed at National 2nd Place
- Knowledge-Based Engineering on chains for Tripcon Engineering Pvt Ltd
- High-Speed Gearbox Design
- Electric 2 wheeler - 3D CAD modelling, Digital Rendering, Prototyping, Manufacturing.

Product Design Intern, *Adapt Motors Pvt Ltd*
Jun 2021 – Jul 2021 | Hyderabad, India

- Electric Three-Wheeler Auto Design and Rendering.
- Converted project specifications into drawings and other materials that would be used to create product.

Education

Master of Business Administration (MBA),
PRR College of Commerce and Management
2021 – present | Hyderabad, India
Specialization - Marketing Management
CGPA - 7.4

Bachelor of Technology (B-Tech), *Hyderabad Institute of Technology and Management, Hyderabad.*
2017 – 2021 | Hyderabad, India
Specialization - Mechanical Engineering
CGPA - 6.92

Intermediate,
Sri Chaitanya Junior College, Hyderabad
2015 – 2017 | Hyderabad, India
CGPA - 7.9

SSC, *TVR Model High School, Hyderabad*
2005 – 2015 | Hyderabad, India
CGPA - 8.7

Software Knowledge

SolidWorks (CAD and CAE)

Creo (CAD and Parametric Design)

Ansys (Computer Aided Engineering)

Autodesk Fusion (CAD and CAE)

Keyshot (Digital Rendering)

Blender (Digital Rendering)

Ultimaker Cura (3D Printing Software)

Lotus Shark Suspension Software (Vehicle Dynamics)

Hyperworks (Computer Aided Engineering)

Languages

English (British Council - CEFR C1) • **Hindi**

Telugu • **German**

Achievements

- Achieved MECH Rank-2 by competing in Altair Optimization contest (AOC) 2022 in the Industrial Design category with accuracy and efficiency.
- Engineering Major Project- Suspension System Test Bench.
- Design lead- Team RevClusters (HITAM MOTORSPORTS CLUB)
- Collaborated with team of 25 in the development of Quad Bike.
- Participated in Quad Bike Design Challenge season 4, organized by the fraternity of mechanical and automotive engineers (FMAE)
- MOC -2019 (MASTER ORATOR CHAMPIONSHIP) Semi-Finalist and was placed under the top 50 Nationwide.

Publications

Competition Based Learning in Engineering Education, *ASME-IMECE2022*

Role of Motorsports Club in Engineering Education, *ICEM 2022*

Suspension System Test Bench
Jun 2023

Virtual Lab Simulator in Engineering Education, *ICEM 2022*

Skills

3D CAD Modelling, 3D Printing, Finite Element Analysis, Computational Fluid Dynamics, Digital Rendering, Knowledge Based Engineering, Topology Study, Vehicle Dynamics, Python

References

Dr. K Siva Prasad (HITAM),
Assistant Director – Doing Engineering,
Hyderabad Institute of Technology and Management
kowdodi.siva@gmail.com, +91 9909777987

Mr. G Singaiah, *Associate Professor*,
Hyderabad Institute of Technology and Management
+91 6302035632

Declaration

I hereby declare that all statements made above are true to the best of my knowledge and belief.