

AKHILESH KUMAR KUSHWAHA

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CAREER OBJECTIVE

3.0+ years of relevant experience as a Design Engineer in leading companies with expertise in mechanical engineering principles, Problem-Solving Skills, and the ability to design various types of products and machines, looking for Design engineer positions that help to lead a successful organization.

SKILLS

- **Solid work:** 3D modeling, feature, sheet metal, surfacing, weld med, drafting, Assembly (GA), Sub-assembly (SA), animation of product, plastic product development, **GD&T**.
- **UG NX:** surface design, assembly, GD&T, sheet metal, Part modeling, Parametric Design, Synchronise modeling, detailing, plastic part modeling.
- **AutoCAD:** Layout, Structure design.
- **Catia:** Automobile plastic parts design, assembly, and part design.
- **Ansys:** static Analysis, meshing, Ansys workbench.
- Good Knowledge of material and coatings as per Industrial use.
- **GD&T:** tolerance Stack up analysis, Use of GD&T during Drafting, Form, orientation, and position tolerances, bonus tolerances, Tolerance modifier.
- Knowledge of **DFM, DFA, DFMEA, FEA, PPAP**, product cycle Management, NPD, and solutions analysis of the product.
- Sound knowledge of mechanical engineering concepts.
- Excellent Verbal, Writing, and communication skills.
- Project Management and Leadership Skills (Team 5+).
- Microsoft Office proficiency.

CERTIFICATION AND PUBLICATION

- Published a compressive experimental analysis for optimal flow configuration **Research Paper** in TTHXr at the ICHMT conference, (<https://dx.doi.org/10.2139/ssrn.4067104>).
- Get a certificate presenting a **Research paper**, Analysis over Trio tube with dual thermal communication Surface heat exchanger in GNIT Hyderabad, (https://doi.org/10.1007/978-981-15-1124-0_1).
- Get a certificate presenting a **Research paper** on the design and fabrication of a trio tube heat exchanger in MIET COLLEGE New Delhi, (<https://dx.doi.org/10.2139/ssrn.3576468>).
- Got a certificate for participation in a National Seminar on "Recent Trends in Structures and Structural Materials" at Axis College, Kanpur.
- Earned a certificate in Jaipur (Arya College) and Chandigarh (CU) for participating in the virtual round and the final round of the 6th Season of "ESVC" on "electrical solar vehicle design and development" Organized by "ISIEINDIA" Recommended by MNRE (Ministry of New and Renewable energy), Govt. of India.

PROFESSIONAL OVERVIEW

2. ECOPPIA SCIENTIFIC

Designation- Design engineer

Department- Engineering

Location- Gurugram

Period- From July 2022 to Present

Job role- Full-time.

Project-(a) Hinduja Project as Lead to the design and development of H4 robot and Auxiliaries.
(b) BL Rocio (Spain) site H4 robot installation-related design and development.
(c) Timna (Israel) H4 robot pallet design and development.
(d) Develop the concept of self-cleaning brush.
(e) Designing of H4 and E4 Robot assembly jigs.

Roles & Responsibility:

- Working closely on DFM, DFA, BOM, Plastic parts, sheet metal, 3D modeling, 2D modeling and Drafting, Surfacing, Weld-made designing NPD, Jig, and fixtures.
- Develop 3D model, sub-assembly, release 2D drawing, GD&T, Tolerances, Tolerances Stack up, ECN.
- Design of all auxiliaries with relevant materials and coating, which are required to move the robot in Structure.
- Development parts for Ecoppia robot's plastic parts NPI.
- Electrical harness Drawing Development.
- Handling prototype tests for Auxiliaries.
- Designing, assembling, and detailed drafting of the assembly and parts of products T4, E4, and H4.
- Based on customer requirements and PV solar modules, make changes in the robot and its structure.
- Static analysis of different parts in Ansys Workbench. Manage the product life cycle.
- Communicate with the global team and vendor for updates.
- Software using **Solid Works, NX, AutoCAD, and SAP**.

1. JREW ENGINEERING LIMITED

Designation- Junior Design engineer

Department- Engineering

Location- Faridabad

Period- From April 2020 to July 2022

Job role- Full time

Project-(a) JCB Side Dump Bucket NPD development lead.
(b) ACE angular regulator NPD development lead.
(c) Escort Manito fork development.
(d) ACE carriage development.

Roles & Responsibility:

- Developing NPD, ECN of parts, RFQ of drawing, PPAP, and sending drawings in the different departments like Manufacturing, QC, PPC, and Assembly.
- Develop product structure, BOM, Technical review, and follow up from Manufacturing attachment.
- Handling enterprise resource planning (ERP), generating ERP code, CP, and FG codes.
- Develop 3D model, make assembly, sub-assembly drafting, GD&T, Tolerance, sheet metal of NPD product.
- Assist product development, material cutting, and machining of products.
- Packaging Design to export Til Tram parts.
- JREW main products like front axles for the backhoe of JCB, CLASS INDIA, and TEREX.
- Communicate with customers, respond about the progress of development, and provide essential data.
- Used software **Solid Work, AutoCAD, ERP, and Ansys**.

INTERNSHIP

Tata Motors

Designation- Summer Internship

Department- Production

Location- Lucknow

Period- From June 19 to July 19

Job role- Part-time

- Organize quality inspection in different models of cab and cowl of heavy vehicles and resolve with the help of 7QC tools.

EDUCATION

- **B. Tech** Mechanical Engineering 2020, AKTU, Lucknow, CGPA 8.1.
- **12th** PCM, 2015, Uttar Pradesh board, Atarra, 84.3%.
- **10th** Science, 2013, Uttar Pradesh board, Atarra, 82.67%.

- **Perusing Skill Development** Program in **Electric Hybrid Vehicle Design and Analysis**.

(a) Design of automobile sheet metal parts by using Siemens NX12.

Major Project

- 1- Automobile Hood Design
- 2- Back Door Design
- 3- Section Modulus calculation and optimization.
- 4- Fender Design
- 5- Roof Design of Automobile

(b) Design of automobile plastic parts by using Catia V5.

(c) GD&T (Tolerance Stack Up, Total Tolerances, Tolerances Modifier, Virtual Tolerances.

ACADEMIC PROJECT

- Concentric Trio tube with dual thermal communication surface heat exchanger.

PERSONAL DOSSIER

Language	-	English, Hindi, and German (A1 & A2)
Date of Birth	-	6th November 1999
Hobbies	-	Music, movies, and reading of spiritual books
Marital status	-	Single

I assure you that all the above information is correct and any references and details of assignments will be provided whenever required.

Place: - Aya Nagar, South Delhi, 110047

Akhilesh Kushwaha