

Nisha Fields

Automotive CAD Designer

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 Chicago, IL 60614

STRENGTHS

-  **Design Proficiency**
Transformed theoretical concepts into practical 3D designs, refining numerous automotive components swiftly.
-  **Collaboration**
Fostered productive teamwork environments, peers regularly consulted for strategic problem solving,
-  **Manufacturing Insight**
Gained respect among colleagues for insights on mold design feasibility, directly influencing production methods and materials,
-  **Technical Documentation Mastery**
Created comprehensive manuals that improved design clarity and manufactured consistency, gaining executive confidence,
-  **Regulatory Awareness**
Demonstrated a keen understanding of automotive compliance requirements, positively impacting project timelines,

SKILLS

- CATIA V5 GD&T
- Product Lifecycle Management
- Design for Manufacturing
- 3D Modeling
- Technical Documentation
- Mechanical Design
- Regression Testing Field Tests
- Cross-functional Collaboration
- Injection Molding
- Project Coordination
- Aesthetic Integration

SUMMARY

Detail-oriented CAD Designer with over 5 years of experience in automotive mechanical design, specializing in exterior mirror assemblies and vision systems. Proficient in CATIA V5 and well-versed in manufacturing processes such as plastic injection molding and die-casting. Strong analytical skills paired with a collaborative approach ensure designs meet regulatory standards and customer specifications while balancing aesthetics and functionality. Committed to delivering high-quality designs that enhance vehicle safety and performance, contributing proactively to project goals and stakeholder satisfaction.

EXPERIENCE

Automotive CAD Designer

Innovative Automotive Solutions  June 2021 - Present  Detroit, MI

- Lead designer managing the digital development of complex 3D models for advanced exterior mirror assemblies and vision systems. Engage cross-functional teams for seamless integration across design elements, focusing on quality and compliance with automotive regulations.
- Created intricate 3D and surface models, optimizing external components for aerodynamics and safety enhancements.
 - Collaborated closely with engineering teams to implement innovative camera and sensor technologies, ensuring global standard adherence.
 - Conducted rigorous tolerance stack-up analyses applying GD&T principles, guaranteeing component integrity and assembly precision.
 - Developed Class-A surfaces enhancing the aesthetic appeal while maintaining functional robustness of mechanical components.
 - Prepared detailed technical documentation including comprehensive 2D drawings supporting manufacturing workflows.
 - Facilitated review meetings presenting design concepts, aligning stakeholder visions with operational capabilities.

Mechanical Design Engineer

Advanced Engineering Corp  April 2018 - May 2021  Cleveland, OH

- Designed and developed automotive components focusing on trim parts and lighting systems. Collaborated effectively within multifaceted teams to push design innovations while achieving manufacturability and cost management.
- Directed design iterations based on DFM assessments during product lifecycle, streamlining production efficiency.
 - Worked cross-departmentally to tackle design issues promptly ensuring continuity in programming schedules.
 - Utilized PLM tools to oversee design modifications and engineering change control throughout active projects.
 - Conducted thorough field tests assessing actual performance against demanding regulatory benchmarks.
 - Engaged stakeholders during reviews enhancing the collaborative determination of project specifications.

Junior CAD Engineer

Engineering Innovations LLC  January 2016 - March 2018  Atlanta, GA

- Supported senior engineering staff in developing interpretive 3D models and drawings for automotive applications. Engaged in constructive collaboration improving product viability through applied research and testing.
- Assisted in drafting precise 3D models consolidating industry best practices in design principles and software.
 - Researched material characteristics and processing techniques vital for sound decision-making regarding designs.

Data Management

Tolerance Stack-Up

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



- Automotive CAD Designer at Innovative Automotive Solutions (5.2 Years)
- Mechanical Design Engineer at Advanced Engineering Corp (3.1 Years)
- Junior CAD Engineer at Engineering Innovations LLC (2.2 Years)

- Partnered with experienced engineers implementing feedback into functionalities that addressed regulatory guidelines.
- Participated actively in weekly sprint sessions discussing evolving challenges in workshops dedicated to solving design hurdles.
- Documented procedural methodologies and design specifications elevating knowledge retention for future use.

LEADERSHIP & AWARDS

- Received Employee of the Month award for outstanding contributions in design accuracy and team collaboration at Innovative Automotive Solutions.
- Recognized by Advanced Engineering Corp for exceptional innovation in component design, enhancing product line value.

EDUCATION

Associate of Applied Science in CAD/Design

City College of Technology 🎓 GPA: 3.6 📅 2016 📍 New York, NY

Coursework: 3D Modeling, Technical Drawing, Design Software, Mechanical Engineering

CERTIFICATIONS

- CAD Software Certification - CATIA V5 📅 2025
- GD&T Professional Certification 📅 2024

TECHNICAL SKILLS

- **CAD Software:** CATIA V5, AutoCAD, SolidWorks
- **Manufacturer Collaboration Tools:** PLM, FEA, DFM
- **Design Standards:** ASME Y14.5, FMVSS 111, ECE R46
- **Electrical Components:** Blind Spot Monitoring, Heated Glass Elements, Power-Folding Actuators
- **3D Modeling Techniques:** Surface Model Creation, Assembly Optimization, Component Design
- **Assembly Processes:** Injection Molding, Die Casting, Assembly Workflow Design
- **Documentation Tools:** GD&T, 2D Drawings, Technical Manuals
- **Testing Methods:** Field Test Analysis, Compliance Validation, Performance Testing
- **Design Review Practices:** Stakeholder Engagement, Feedback Interpretation, Cross-Departmental Reviews
- **Material Properties & Selection:** Thermal Conductivity, Tensile Strength, Durability Testing

PROFESSIONAL AFFILIATIONS

- Member of the Society of Automotive Engineers, actively participating in workshops and professional development gatherings.
- Volunteer mentor for STEM programs aimed at inspiring youth interest in engineering and technology fields.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST