

Kaden Mosley

Senior Mechanical Product Design Engineer

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SUMMARY

Mechanical design engineer with 10 years of experience developing **electromechanical products** from early concepts through **validation** and production support. Creates SolidWorks CAD models, detailed assemblies, **engineering documentation**, design reviews, prototypes, and validation plans that help teams move products forward with confidence. Applies GD&T, DFMEA, APQP, FEA support, **manufacturing knowledge**, testing practices, and quality processes during product development. Works closely with engineering, manufacturing, suppliers, and customer groups to resolve technical issues and improve production outcomes. Brings practical experience translating customer needs into manufacturable designs, supporting cross functional launches, and addressing problems discovered during testing or production. Motivated by thoughtful design decisions, clear communication, and dependable execution that can help a product team deliver safe, useful, and production ready mechanical solutions.

EXPERIENCE

Senior Mechanical Design Engineer

Confidential Mobility Products 📅 January 2022 - Present 📍 Evanston, IL

Lead **mechanical product design** for electromechanical assemblies, supporting **concept development**, CAD definition, validation, production launch, and technical issue resolution across engineering and manufacturing teams.

- Led **SolidWorks** assembly redesign for a mobility product, improving fit during prototype validation.
- Created **GD&T** drawings for machined components, reducing inspection questions during pilot production.
- Built **DFMEA** and APQP inputs for a launch, clarifying risks before production release.
- Supported **FEA** reviews for a bracket redesign, guiding material and geometry decisions.
- Resolved manufacturing issue through cross functional review, restoring assembly flow for production teams.

Mechanical Product Design Engineer

Confidential Engineering Solutions 📅 January 2019 - December 2021 📍 Chicago, IL

Developed mechanical components and electromechanical assemblies through design reviews, prototyping, testing, documentation, and manufacturing handoff while coordinating customer and internal engineering needs.

- Modeled electromechanical assemblies in SolidWorks, enabling prototype builds for customer **design reviews**.
- Prepared **engineering documentation** for production release, giving manufacturing teams clearer build requirements.
- Applied **GD&T** to interface features, improving communication between design and inspection teams.
- Supported **validation** planning for prototype hardware, connecting test results with design updates.
- Investigated customer technical issue through design review, identifying practical corrective action for production.

Mechanical Design Engineer

Confidential Product Development Group 📅 January 2016 - December 2018 📍 Chicago, IL

Supported mechanical product development from early concepts through prototypes and manufacturing transition, contributing CAD design, analysis support, testing, and **production problem resolution**.

- Developed **CAD** concepts for **electromechanical products**, helping teams compare manufacturable design options.
- Built prototype assemblies for testing, revealing interface concerns before formal **validation** activities.
- Assisted FEA support for structural components, informing design changes during development reviews.
- Documented design decisions after cross functional meetings, keeping manufacturing and engineering aligned.
- Addressed production fit issue with revised drawings, supporting smoother assembly during product launch.

PROJECTS

Electromechanical Product Validation 📅 2024

Coordinated a product validation effort using SolidWorks models, prototypes, design reviews, testing practices, GD&T, and DFMEA inputs to connect design decisions with production needs.

Manufacturing Design Improvement 📅 2022

Reviewed mechanical interfaces with manufacturing stakeholders, updated engineering documentation, and applied APQP thinking to improve handoff quality during product release.

LEADERSHIP & AWARDS

- Received team recognition for clear mechanical design reviews and practical production issue resolution.
- Selected by engineering peers as a dependable resource for SolidWorks assemblies and GD&T questions.
- Recognized for supporting cross functional product launches with organized documentation and steady technical follow through.

EDUCATION

Bachelor's Degree in Mechanical Engineering

Midwest Technical University 🎓 GPA: 3.5 📅 2016 📍 Evanston, IL

Coursework: *Mechanical Design, Manufacturing Processes, Engineering Analysis, Product Development*

CERTIFICATIONS

- SolidWorks Associate Certification 📅 2018
- GD&T Fundamentals Certificate 📅 2019

TECHNICAL SKILLS

- **CAD Design Software:** SolidWorks, CAD assemblies, 3D modeling
- **Engineering Documentation:** Detail drawings, design records, release documentation
- **Geometric Dimensioning:** GD&T, tolerance analysis, inspection drawings
- **Product Risk Methods:** DFMEA, risk review, corrective action
- **Production Planning:** APQP, launch planning, manufacturing handoff
- **Mechanical Analysis:** FEA support, structural review, material evaluation
- **Prototype Development:** Prototype assemblies, fit checks, design iteration
- **Validation Practices:** Validation plans, testing practices, result review
- **Manufacturing Processes:** Machining, assembly, production support
- **Quality Engineering:** Quality processes, issue resolution, design controls
- **Cross Functional Reviews:** Engineering reviews, manufacturing reviews, customer reviews

SKILLS

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|-----------------------|---------------|---------------------------|-----------------------------|
| • Mechanical design | • GD&T | • Prototyping | • Engineering documentation |
| • Product development | • DFMEA | • Validation planning | • Quality processes |
| • SolidWorks | • APQP | • Design reviews | • Customer communication |
| • CAD modeling | • FEA support | • Manufacturing processes | |

PROFESSIONAL AFFILIATIONS

- Participates in mechanical engineering communities focused on product design, manufacturing, and practical engineering exchange.
- Maintains professional connections with engineering, manufacturing, quality, and customer focused product teams.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST