Joaquin Garner

Senior Mechanical Design Engineer, Robotics and Automation

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STRENGTHS

Design Review Clarity
Turned SolidWorks concepts into clear review material. Teams could spot fit concerns earlier, and feedback became easier to act on.

Prototype Learning
Used prototype builds as honest feedback. Fit issues surfaced before validation, giving colleagues a cleaner path toward release.

Manufacturing Partnership
Worked directly with production teams on assembly concerns. That shop floor perspective kept design decisions practical and useful.

Technical Documentation
Prepared drawings and GD&T details that supported consistent handoffs. Peers often relied on documentation during build questions.

Customer Issue Resolution
Listened closely during technical issue reviews, then translated feedback into focused mechanical updates with clear follow through.

SKILLS

Mechanical design | SolidWorks | Robotics systems | CAD modeling | Prototyping | Production support | Design reviews | Mechanical analysis | Manufacturing processes | Engineering documentation | Validation testing | Quality processes | Cross functional work

SUMMARY

Mechanical design engineer with six years supporting **robotics and automation** product development from concept through **production support**. Creates SolidWorks CAD models, prototypes, **engineering documentation**, **design reviews**, and lifecycle improvements that help teams move products into reliable manufacturing. Works closely with manufacturing, quality, testing, and customer groups to resolve technical issues and improve product performance. Applies mechanical analysis, GD&T, design for manufacturing, validation planning, and production feedback during product development. Hands on experience includes robotics systems, CAD driven design, prototype development, and engineering change support. Brings a practical connection between design intent and shop floor execution, with clear documentation that helps cross functional teams make sound decisions. Prepared to contribute disciplined mechanical design judgment, responsive collaboration, and production focused problem solving within an automation engineering environment.

EXPERIENCE

Mechanical Design Engineer, Robotics and Automation

Confidential June 2020 - Present Evanston, IL

Supports **robotics and automation** product development across concept design, CAD modeling, prototype builds, validation, documentation, production support, and lifecycle improvement. Partners with manufacturing, quality, testing, and customer groups to resolve technical issues and keep product decisions aligned with performance, cost, and production needs.

- Created SolidWorks models for robotics assemblies, improving design clarity during cross functional reviews
- Built functional prototypes that exposed fit issues before **validation** testing and production release
- Prepared **engineering drawings** and GD&T documentation for repeatable manufacturing handoffs
- Supported design reviews with **mechanical analysis** findings, reducing late changes during product validation
- Partnered with **manufacturing** teams to resolve assembly issues and improve production support response
- Coordinated customer issue reviews, translating field feedback into practical **mechanical design** updates

PROJECTS

Robotics Assembly Lifecycle Improvement 2024

Improved a robotics assembly workflow through CAD updates, prototype feedback, engineering documentation, and production focused design decisions. Work connected product changes with manufacturing needs and validation activities.

LEADERSHIP & AWARDS

- Recognized by engineering peers for dependable support during robotics prototype reviews and production issue resolution.
- Received team recognition for clear SolidWorks documentation and practical collaboration with manufacturing partners.

EDUCATION

Bachelor of Science in Mechanical Engineering

Midwest Technical University GPA: 3.5 2016 Evanston, IL

Coursework: *Mechanical design, CAD modeling, mechanical analysis, manufacturing processes, engineering documentation*

Customer issue resolution

Product lifecycle

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

Mechanical Design Engineer, Robotics and Automation at Confidential (6.2 Years)

CERTIFICATIONS

- SolidWorks Associate Certification 2019
- GD&T Fundamentals Certificate 2020

TECHNICAL SKILLS

- **CAD Platforms:** SolidWorks, 3D CAD, assembly modeling
- **Mechanical Design:** Product design, concept development, design reviews
- **Engineering Documentation:** Engineering drawings, specifications, revision control
- **Geometric Dimensioning:** GD&T, tolerances, datum schemes
- **Prototype Development:** Prototype builds, fit checks, design iterations
- **Mechanical Analysis:** Load analysis, fit analysis, design verification
- **Manufacturing Methods:** Design for manufacturing, machining, assembly
- **Validation Practices:** Functional testing, validation planning, test reviews
- **Quality Systems:** Quality processes, issue tracking, corrective action
- **Production Support:** Assembly support, release support, lifecycle improvement
- **Robotics Engineering:** Robotics systems, automation equipment, mechanical integration
- **Collaboration Tools:** Design reviews, customer reviews, manufacturing reviews

PROFESSIONAL AFFILIATIONS

- Member, American Society of Mechanical Engineers, supporting continued mechanical design learning.
- Member, Society of Manufacturing Engineers, staying connected with practical production methods.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST