The market leader in mechatronics and detailed engineering design services

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Helping next gen technology companies...

Are you a technology company that needs to:

- Shorten R&D cycles
- Get back to innovating
- Shorten time-to-market
- Get relief for internal, overtasked design teams
- Define manufacturing requirements earlier in your development process
- Improve your design for manufacturing success rate
- Minimize New Product Introduction CM hand-off risks

Simplexity can help!

We delight in clearing our clients' product development hurdles and being a part of getting your products to manufacturing more cost-effectively, safely and in less time. Simplexity's expertise spans the entire product development process from early exploration, requirements and planning, multi-phase prototyping to design verification and transfer. Our New Product Introduction services derisk and ease the transfer to contract manufacturing, seamlessly and efficiently.

...keep innovating

Simplifying the Complex®

Technology leaders choose Simplexity to accelerate and de-risk their product development. We are a trusted partner in product commercialization, with a depth of expertise in product architecture, mechatronics, and complete system design for cost-effective manufacturing.

- Solid engineering expertise across engineering disciplines
- Concept to product cost effectively with minimal risk
- Holistic systems approach
- Design for manufacturing knowledge
- Ability to simplify complex problems



OUR SERVICES

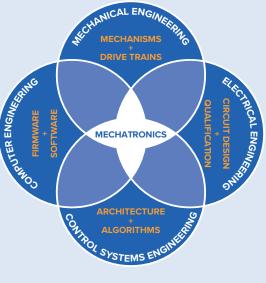
With an average of 20 years' experience, Simplexity engineers and technicians provide in-depth expertise. From back of a napkin sketch to proof-of-concept through design and assembly, we'll drill down to identify the most challenging, highest-risk areas of the project. We determine the best path to simplifying the design to achieve results such as decreased bill of materials cost, lower part count, and improved reliability.

- Mechanical engineering
- Electrical engineering
- Firmware engineering
- Software engineering
- Systems engineering
- Project management
- Manufacturing engineering
- Quality engineering
- Prototype development
- New Product Introduction

WE ARE MECHATRONICS EXPERTS

Designing electro-mechanical products and machines, especially ones that require precise motion, is a cross-disciplinary endeavor requiring advanced skills in mechanical, electrical, computer, and controls engineering. This mix of skills has come to be known as "mechatronics." Simplexity is THE mechatronics expert in product development..

The Venn diagram to the right shows how these four different disciplines overlap to create the field of mechatronics.

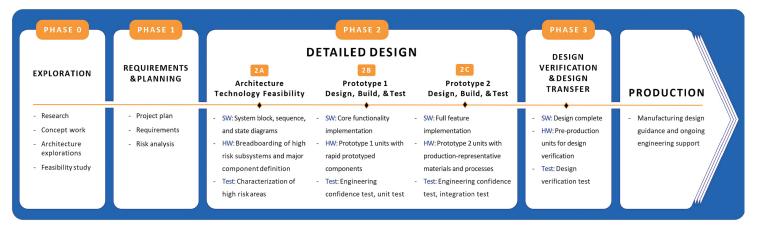


GUIDING YOUR PRODUCT DEVELOPMENT PROCESS

Simplexity uses a phase-gate process, based on decades of experience and industry best practices, to guide its product development. Design is an iterative process, whereby unknowns and high-risk areas are best resolved through exploration, building prototypes, analysis, and testing as early as possible.

THE PHASES OF PRODUCT DEVELOPMENT

Our approach is to figure out what the highest risk aspect of a product may be and devise effective ways of assessing those risks.



HOW CAN WE HELP YOU?

From prototype optimization to managing project bandwidth issues, from cost reduction techniques to product feasibility questions, and from prototyping through to volume production preparation, Simplexity's fast ramp team of expert product engineers and project managers is ready!

- Full service design and product development Full product development expertise, including concept generation, detailed design, prototyping, manufacturing, risk analysis, and quality engineering
- **Technology feasibility** Technology advancement guidance to determine product design viability for development and manufacturing
- **Product simplification and cost reduction** Design for manufacturability (DFM) and cost of goods sold (COGS) planning assistance for new or existing products
- **Product quality management** ISO 13485:2016 certified product design, engineering, prototyping, and testing for medical devices, from product inception through transfer to manufacturing
- **Bolstered bandwidth** All the engineering resources you need to meet project deadlines, quality objectives and ease the burden on your internal design and development resources
- **Prototype optimization** Expert level engineering experience to finalize (and prioritize) prototyping and preproduction initiatives
- New Product Introduction (NPI) services Minimize CM transfer risks while managing product cost, improve product quality and reduce time to market

MARKET EXPERTISE:

CONNECTED CONSUMER & WEARABLES



QUALITY MANAGEMENT

Minimizing risk is critical when selecting a design partner. Our Quality System was built for the unique needs of our customers. Every product we design has distinct requirements, and our quality processes have been built to enable close collaboration with our clients to create a product plan that is both risk-managed and cost-efficient, prioritizing the specific needs of the project.

- Our Certified Quality Management System is audited regularly, both internally and externally by NSF.
- **Experienced Quality Team** helps define product requirements, perform comprehensive data-based risk analyses, develop design verification strategies, and execute high-quality testing, from product inception through transfer to manufacturing.
- Supplier Management and Performance Tracking activities push risk management upstream to our suppliers, further helping to control and manage project risks.
- Proven Risk Management in compliance with ISO 14971
- Medical products developed in compliance with IEC 60601 and IEC 62304
- Electronic QMS and Client Web Portal provide direct access to project documents for download, review, and approval.
- ISO 13485:2016 Certification. Simplexity has been awarded Quality Management System ISO 13485:2016 certification for Product Design and Development related to medical products. This ISO certification indicates that the company's quality management system (QMS) meets or exceeds the latest international guidance for medical device product development.



VEARS .

2005

Celebrating 15 Years of Product Development Excellence

- Simplexity founded in San Diego by ex-HP engineers
- 2006 Added Portland area office
- 2012

Expanded expertise to biotech market



Added Bay Area office



Added Seattle office



Awarded ISO 13485:2016 Certification

NOW We have 80+ employees and have been awarded 200+ patents

We are an award-winning product design, development, and engineering firm here to help you achieve your product development goals.



Simplexity's engineering work contributed to our clients' winning the following awards.



2019 INTERNATIONAL IDEA AWARDS FINALIST GOODWELL.CO



reddot award 2016 best of the best

REDDOT AWARD WINNER 2016 NAUTILUS



2019 CES INNOVATION AWARD WINNER OSSIA COTA



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Simplexity is proud to be a West Coast company with four offices to provide localized support for our clients.

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